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The Trade Wind Zone Oceanography Pilot Study Part I: Townsend Cromwell Cruises 1, 2, and 3 February to April 1964

By Robert L. Charnell, David W. K. Au,
and Gunter R. Seckel



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The Trade Wind Zone Oceanography Pilot Study Part 1: Overview, Objectives, and Methods February to April 2000

Edited by
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and
J. G. S. BARNES

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1. The first part of the report deals with the general situation of the country and the position of the various groups of the population. It is a very interesting and informative study of the social and economic conditions of the country.

TABLE

2. The second part of the report contains a table showing the results of the various groups of the population. The table is very clear and easy to understand. It shows the results of the various groups of the population in a very clear and concise manner.

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The Trade Wind Zone Oceanography Pilot Study

Part I: Townsend Cromwell Cruises 1, 2, and 3

February to April 1964

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ABSTRACT

A standard grid of oceanographic stations in an area bounded by lat. 10° and 26° N., and long. 148° and 157° W., was occupied at monthly intervals between February 1964 and June 1965. For the first set of three cruises, Townsend Cromwell cruises 1, 2, and 3, February to April 1964, oceanographic station data are tabulated, BT data are presented in vertical sections, and the distribution of surface temperature, surface salinity, and surface dynamic height relative to 1,000 m. (cruise 1), and 1,200 m. (cruises 2 and 3) are shown in charts for each cruise. Methods and procedures as well as the limitations of the data are discussed.

INTRODUCTION

This is the first of a series of reports presenting physical oceanographic data of the Trade Wind Zone Oceanography Pilot Study conducted by the Bureau of Commercial Fisheries Biological Laboratory, Honolulu. The data were obtained during a series of 16 monthly cruises between February 1964 and June 1965 over a set station pattern in an area near the Hawaiian Islands bounded approximately by lat. 10° and 26° N. and long. 148° and 157° W.

The complete set of observations represents a three-dimensional time-sequence distribution of properties (temperature, salinity...) in the trade wind zone of the central North Pacific. It is a pilot study of an investigation in which seasonal changes in the distribution of properties are to be explained in terms of 1) seasonal changes in the processes of net heat and water

exchange across the sea surface, and 2) the effects of seasonal changes in wind stress and water motion. The Trade Wind Zone Oceanography Program was planned by Gunter R. Seckel and is carried out under his direction by HL (Bureau of Commercial Fisheries Biological Laboratory, Honolulu).

This report contains the BT (bathythermograph) and oceanographic station data for the first, second, and third cruises in the series. Figure 1 shows the cruise track for the three cruises and gives the position of the Nansen bottle oceanographic casts and the BT casts.

All cruises were made by the R/V Townsend Cromwell, commanded by Captain Robert E. K. D. Lee, with officers Jan Liefting and Pete Andrich. The scientific parties were composed of the following:

Townsend Cromwell cruise 1:
February 14 to March 6, 1964

Gunter R. Seckel - HL - Field Party Chief
David W. K. Au - HL
Robert P. Brown - HL
William E. Hauser - HL
Henry M. Kishinami - HL
Lloyd T. Watarai - HL
John Hazelworth - U.S. Naval Oceanographic Office

Note.--Robert L. Charnell, Oceanographer, presently with Hazelton Nuclear Science Corp., Palo Alto, California 94303, formerly with Bureau of Commercial Fisheries Biological Laboratory, Honolulu, Hawaii; David W. K. Au, Physical Science Technician and Gunter R. Seckel, Oceanographer, Bureau of Commercial Fisheries Biological Laboratory, Honolulu, Hawaii 96812.

Townsend Cromwell cruise 2:

March 16 to April 5, 1964

Robert P. Brown - HL - Field Party Chief

David W. K. Au - HL

Melvin E. Kau - HL

Rodney Kimura - HL

Lloyd T. Watarai - HL

Warren King - Smithsonian Institution

Robert Sundell - Smithsonian Institution

Townsend Cromwell cruise 3:

April 12 to May 4, 1964

Lloyd T. Watarai - HL - Field Party Chief

(4/12-4/18)

David W. K. Au - HL - Field Party Chief

(4/19-5/4)

Howard Adrian - HL

Joseph R. Harada - HL

Henry M. Kishinami - HL

Douglas Edsall - National Oceanographic

Data Center

David Bratley - Smithsonian Institution

Warren King - Smithsonian Institution

OBSERVATIONS^{1/}

In addition to the regular Nansen and BT casts shown in figure 1, BT casts were made at 18.5-km. (10-nautical-mile) intervals for studies of variability between stations 19 and 21, 26 and 28, and 35 and 37, except for cruise 1, where one series was between stations 31 and 33 instead of stations 19 and 21.

To supplement the physical oceanographic data presented in this report, additional information of the following types was obtained.

Biological

A 1/2-hour surface plankton tow was taken daily at 2000 hours with a 1-m. net. Flyingfish which stranded themselves on deck were collected daily. Regular observations of fish schools, sea mammals, and birds were supplemented by more detailed bird counts by observers from the Smithsonian Institution on Cromwell cruises 2 and 3.

Meteorological

Rain measurements as well as standard weather observations were taken four times

daily. Radiation from sun and sky was measured and recorded daily with an Eppley pyranometer. These observations were supplemented by daily color photographs of clouds.

Current

Ten plastic-enclosed drift cards, described by Barkley, Ito, and Brown (1964), were released at each BT cast. Current-measuring techniques were tested with an Ekman current meter, suspended from the ship. The ship was drifting relative to a parachute drogue placed at a depth of 1,200 m.

PREPARATION OF DATA

Standard oceanographic procedures were employed in the preparation of the data for this report. Salinity determinations were made on the University of Washington salinity bridge (Paquette, 1958). Duplicate determinations were made with an induction salinometer. When values differed more than 0.02 ‰, the salinity was redetermined on the U.W. salinity bridge, and the mean of the salinity bridge determinations was reported. All thermometers had been calibrated at HL since April 1962. The reported temperatures are estimated to be accurate to $\pm 0.02^{\circ}\text{C}$. Application of corrections to protected and unprotected thermometer readings and computations of thermometric depths and L-Z values were performed with an IBM 7040 digital computer^{2/} at the University of Hawaii Computing Center with a program written at HL. Depths were determined by the use of values from the L-Z curve for the actual depth. This procedure gave depth estimated to be within ± 10 m. down to 1,000 m. and within ± 1 percent below 1,000 m.

Sigma-t, specific volume anomaly, and the dynamic height were computed on the IBM 7040 computer by the program prepared at HL and based on equations given by LaFond (1951). The computer also was used to interpolate all properties at standard depths by means of a subroutine furnished by the University of Washington Oceanography Department and based on the interpolation method outlined by Rattray (1962).

In the region of study, a sharp thermocline generally separates a surface mixed layer from

^{1/}All data not presented in this report are on file at the Bureau of Commercial Fisheries Biological Laboratory, Honolulu 96812.

^{2/}Trade names referred to in this publication do not imply endorsement of commercial products.

the subsurface waters. Only infrequently do Nansen casts adequately define this configuration, with the result that the interpolation program provides inaccurate values for temperature. BT data were used to correct the temperature-depth curve in the thermocline and the isothermal layer. When necessary, a value of temperature was chosen from the corrected curve at standard depths in the mixed layer and upper thermocline and, with the corresponding salinity value from the T-S curve, was used with the Nansen cast data in the interpolation program. The resulting interpolated values were much nearer the actual oceanographic situation as implied by the BT trace.

To estimate the validity of values for the surface distribution charts, the surface bucket values of temperature and salinity were compared, for each cruise, with values from the surface Nansen bottles. For temperature, variation was fairly random so that the mean of the difference between the two values was well within the accuracy of the surface bucket thermometer. The root mean square value computed from the above differences was less than 0.2°C . The bucket salinity values, on the other hand, were consistently larger than the Nansen bottle values, most probably owing to salt contamination at the time of sampling. The mean of the differences was about $0.03\text{ }^{\circ}\text{oo}$ and the root mean square value was within $0.07\text{ }^{\circ}\text{oo}$ for each cruise.

PRESENTATION OF DATA

For each of the three cruises the original as well as derived data and section plots for the properties have been included.

Tables 1, 2, and 3 contain the oceanographic station data for cruises 1, 2, and 3, respectively. In addition to the position, date, and time at each station, weather and sea conditions in standard notation have been included in the heading of each station. The first five columns of each station listing show the observed depth, temperature, salinity, oxygen, and phosphate,^{3/} respectively; the next two columns contain calculated sigma-t and specific volume anomaly for the observed data. The next three columns

^{3/}Oxygen and phosphate data are available only for cruises 6 to 17; the columns in the tables of the present report bear the oxygen and phosphate headings only to have a uniform format for this series of reports.

present the interpolated values of temperature and salinity at standard depths and the last three columns contain sigma-t and the specific volume anomaly calculated from the interpolated data and the anomaly of dynamic height summed from the surface. The error terms, defined by the Rattray interpolation technique, that exceeded 0.10 for temperature and 0.05 for salinity have been noted below the tabulation for each station. Interpolated and extrapolated values as well as irregularities in the original data are noted in these tables.

Temperature distribution sections alonglong. 148° W. , 151° W. , 154° W. , and 157° W. based on the 270-m. BT's are included; so are the shorter zonal sections between stations 7 and 8, 25 and 26, and 37 and 40. In addition, surface temperature and salinities are presented with each section. All the sections were plotted automatically by the model 566 Calcomp plotter with a program designed at HL. These seven BT sections are shown in figures 2 through 7 for cruise 1, figures 8 through 13 for cruise 2, and figures 14 through 19 for cruise 3.

The surface temperature distributions, based on bucket temperature at each BT cast, are shown in figures 20, 21, and 22 for cruises 1, 2, and 3, respectively.

The surface salinity distributions, based on bucket salinity samples at each BT cast, are shown in figures 23, 24, and 25 for cruises 1, 2, and 3, respectively.

The dynamic topography, relative to 1,000 m. for cruise 1 and 1,200 m. for cruises 2 and 3, is shown in figures 26, 27, and 28, respectively.

ACKNOWLEDGMENTS

The data for these cruises were processed by HL personnel under the direction of Mary Lynne Godfrey. Betty Ann L. Keala did the computer programing.

LITERATURE CITED

- BARKLEY, RICHARD A., BERNARD M. ITO, and ROBERT P. BROWN.
1964. Releases and recoveries of drift bottles and cards in the central Pacific. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Fish. 492, iii + 31 p.
LaFOND, EUGENE C.
1951. Processing oceanographic data. U.S. Navy Hydrographic Office Publ. 614, 114 p.

PAQUETTE, ROBERT G.

1958. A modification of the Wenner-Smith-Soule salinity bridge for the determination of salinity in sea water. Dep. Oceanogr. Univ. Wash., Tech. Rep. 61, 57 p.

RATTRAY, MAURICE, JR.

1962. Interpolation errors and oceanographic sampling. Deep-Sea Res. 9: 25-37.

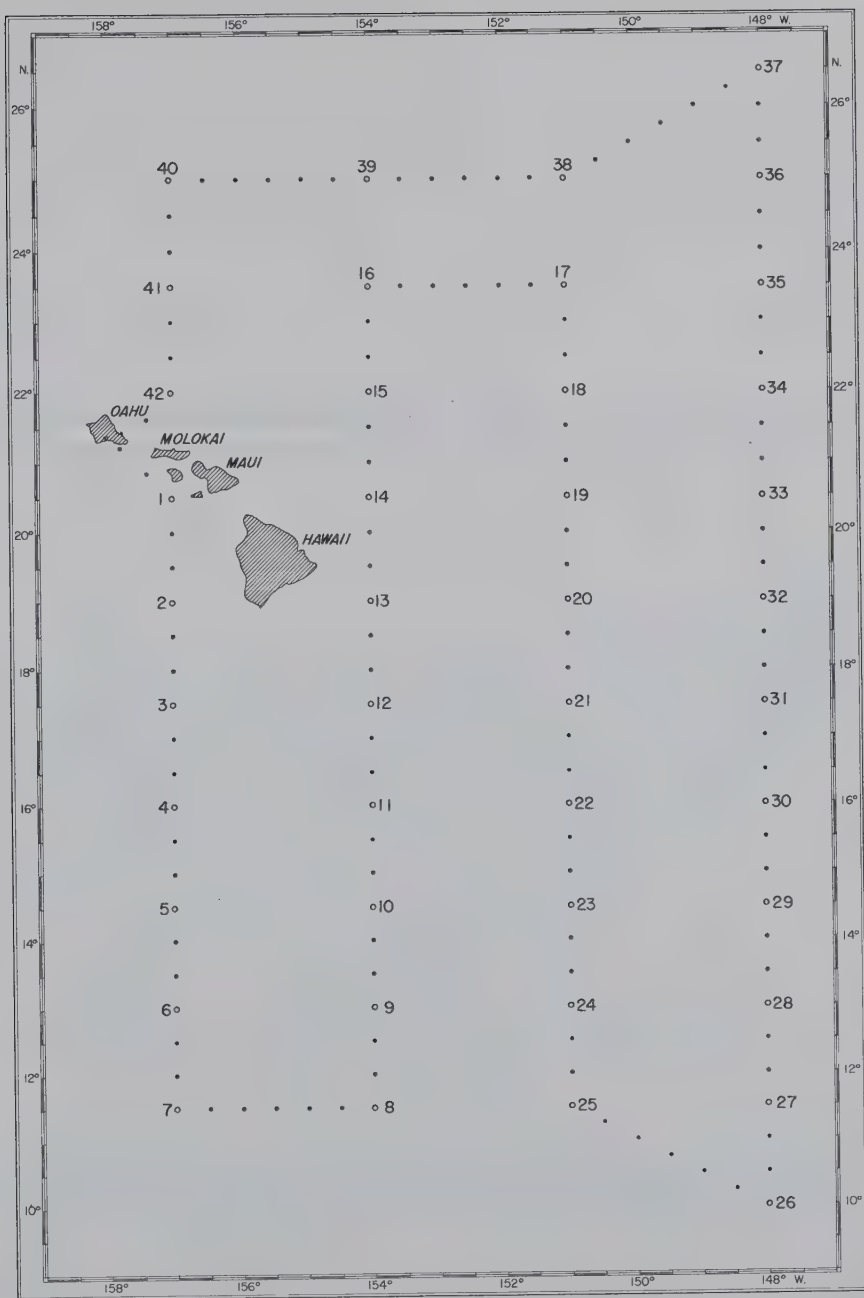


Figure 1.--Track chart for Townsend Cromwell cruises 1, 2, and 3. The large, numbered dots indicate the locations at which both hydrographic and BT (bathythermograph) casts were made; the smaller dots indicate locations at which only BT casts were made.

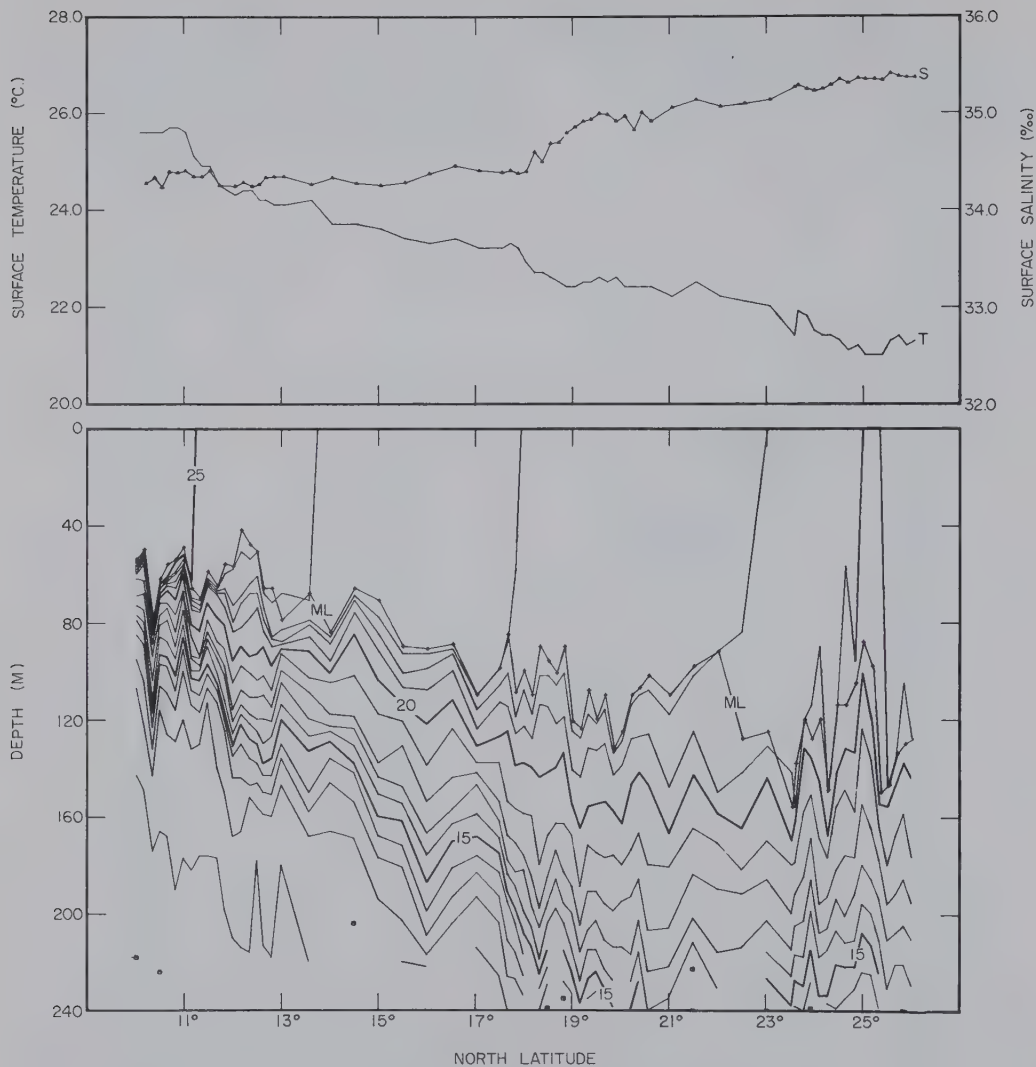


Figure 2.--Surface temperatures ($^{\circ}\text{C}$.) and salinities ($^{\circ}/\text{oo}$) (upper panel) and BT temperature ($^{\circ}\text{C}$.) section (lower panel) for Townsend Cromwell cruise 1 along long. 148°W . The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

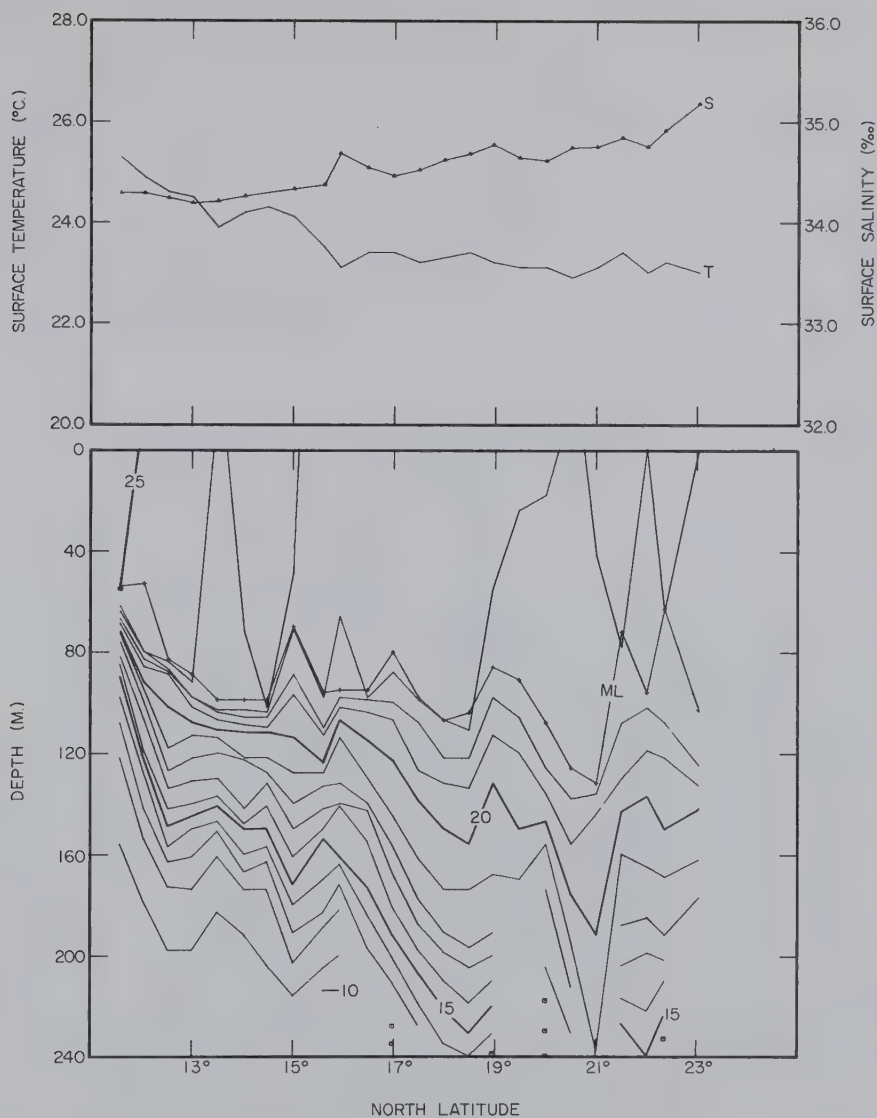


Figure 3.--Surface temperatures ($^{\circ}\text{C}.$) and salinities ($^{\circ}/\text{oo}$) (upper panel) and BT temperature ($^{\circ}\text{C}.$) section (lower panel) for Townsend Cromwell cruise 1 along long. 151°W . The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

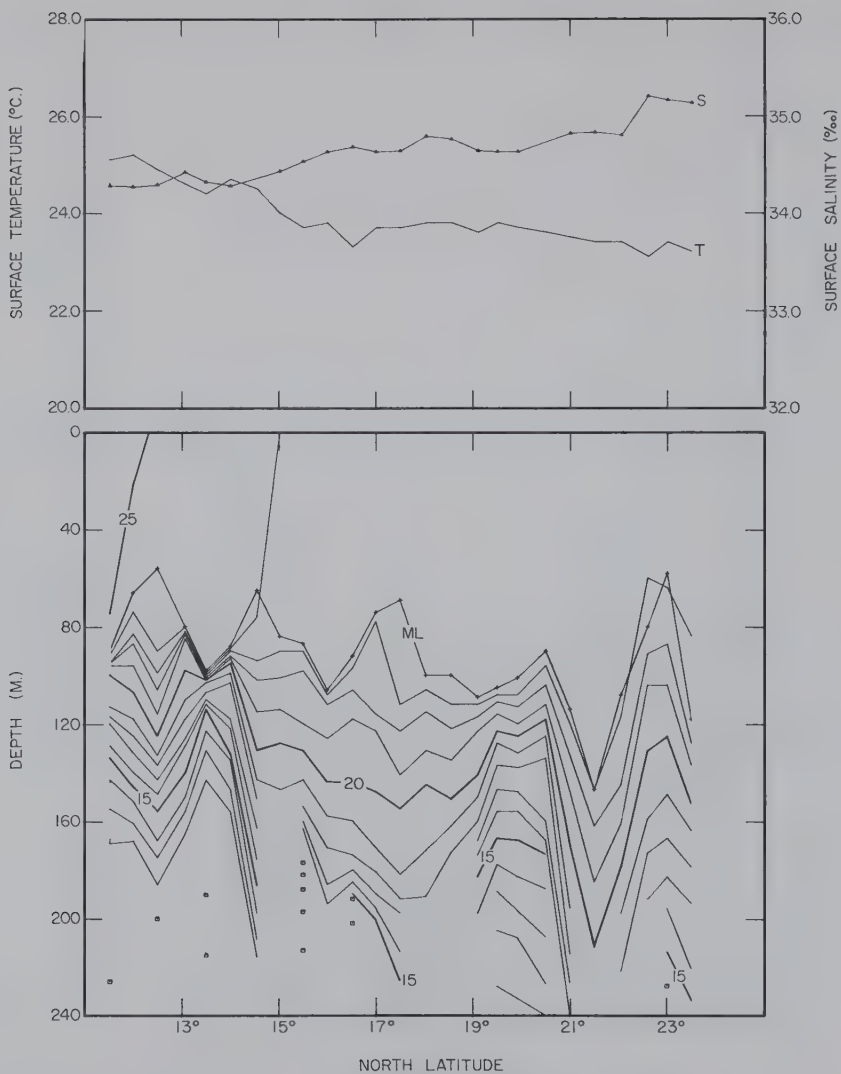


Figure 4.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 1 along long. 154° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

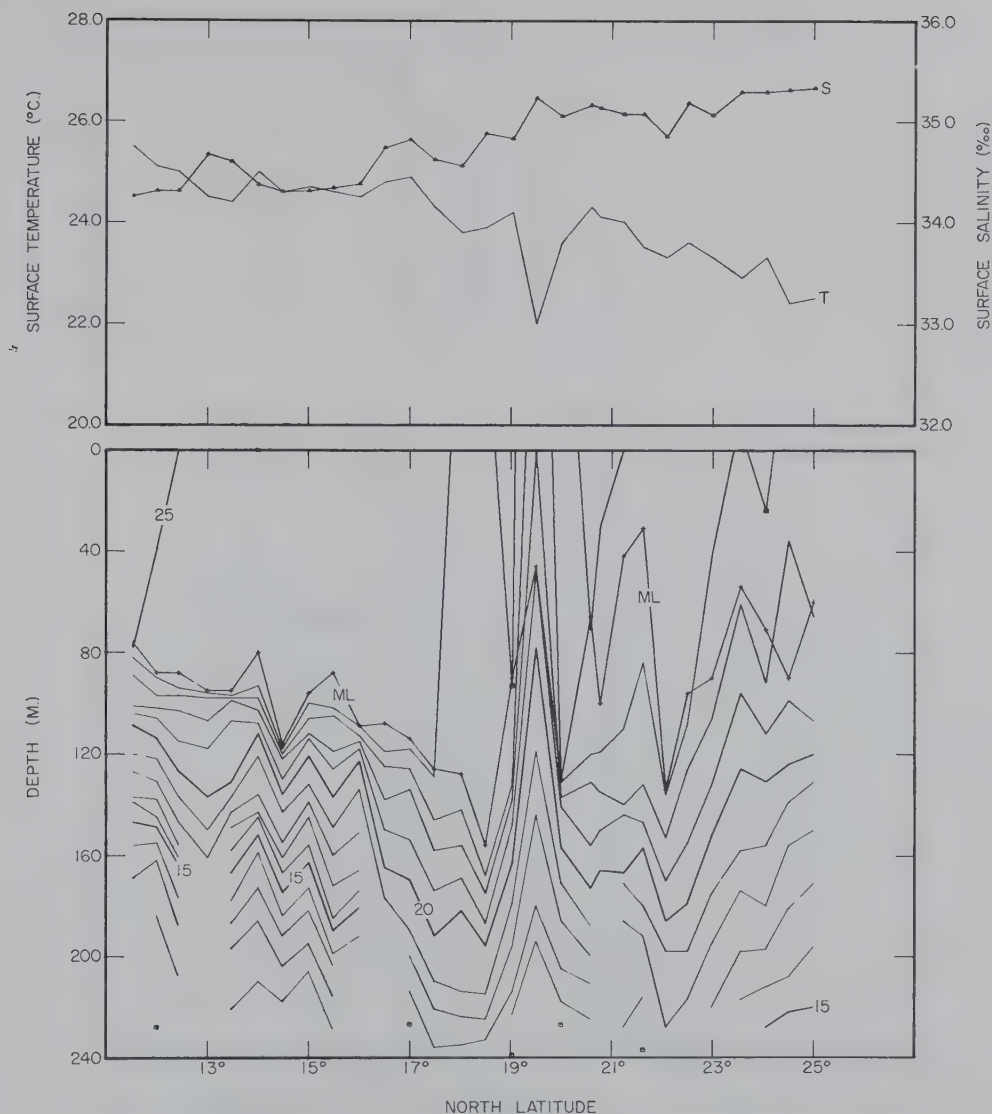


Figure 5.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 1 along long. 157° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

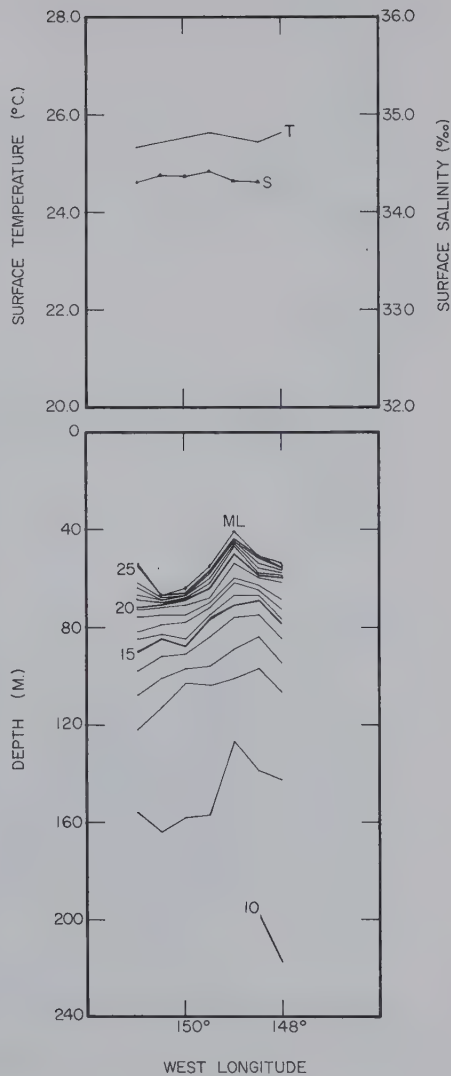
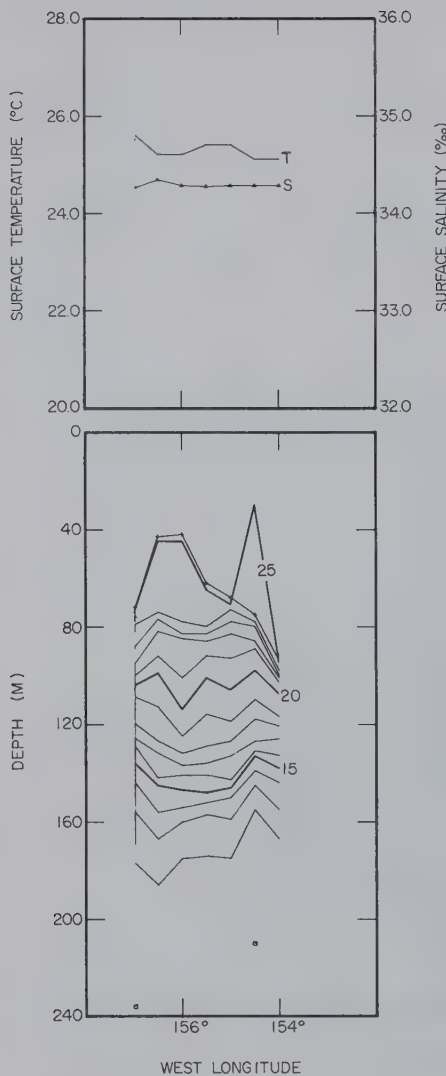


Figure 6.--Surface temperatures ($^{\circ}\text{C}$.) and salinities (‰) (upper panel) and zonal BT temperature ($^{\circ}\text{C}$.) section (lower panel) for Townsend Cromwell cruise 1 between stations 7 and 8, 25 and 26. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

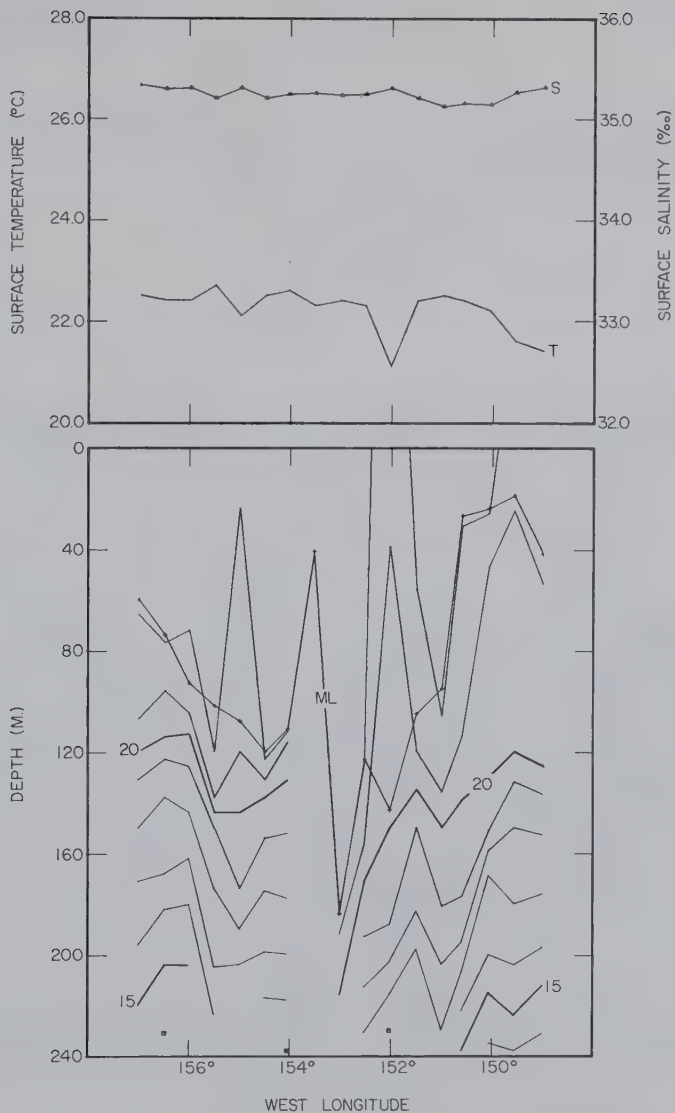


Figure 7.--Surface temperatures ($^{\circ}\text{C.}$) and salinities ($^{\circ}/\text{oo}$) (upper panel) and zonal BT temperature ($^{\circ}\text{C.}$) section (lower panel) for Townsend Cromwell cruise 1 between stations 37 and 40. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

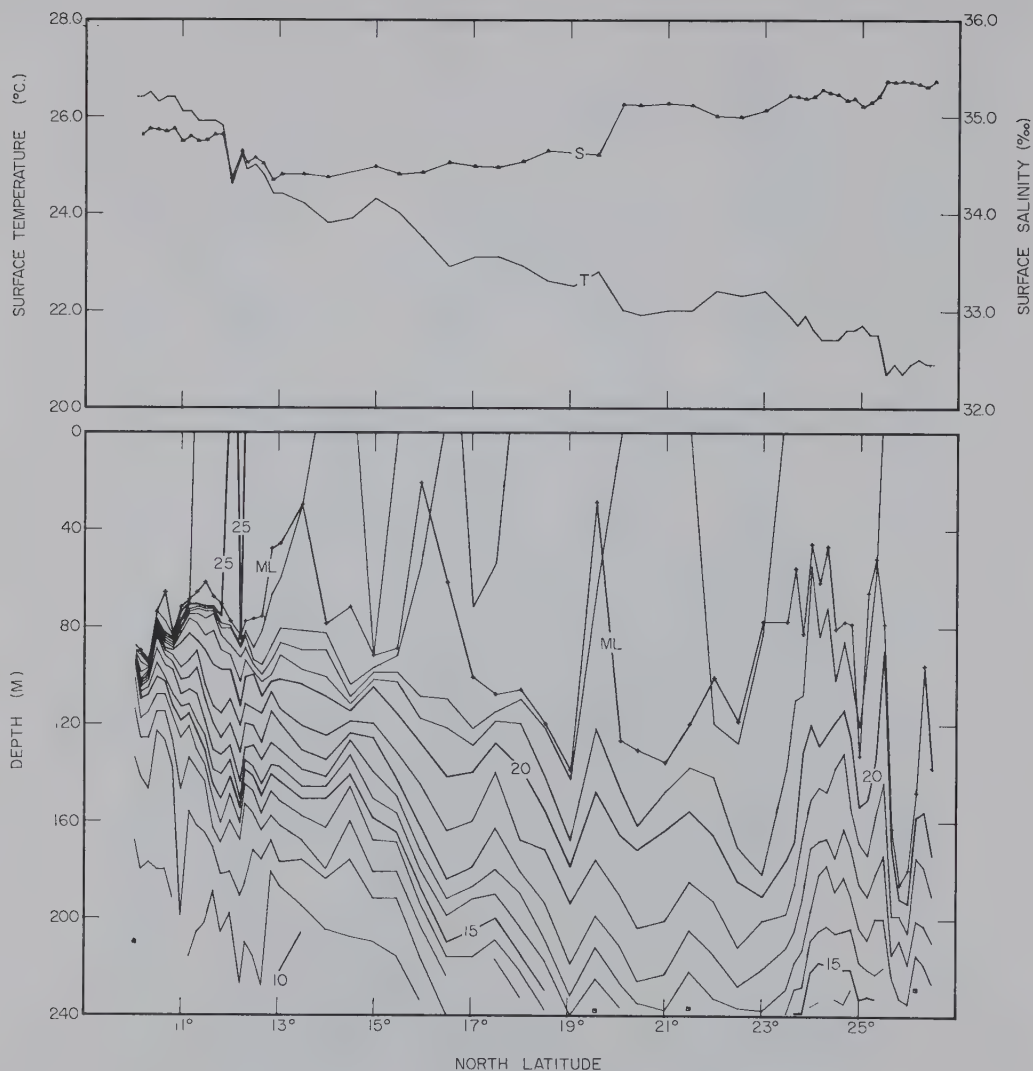


Figure 8.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 2 along long. 148° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

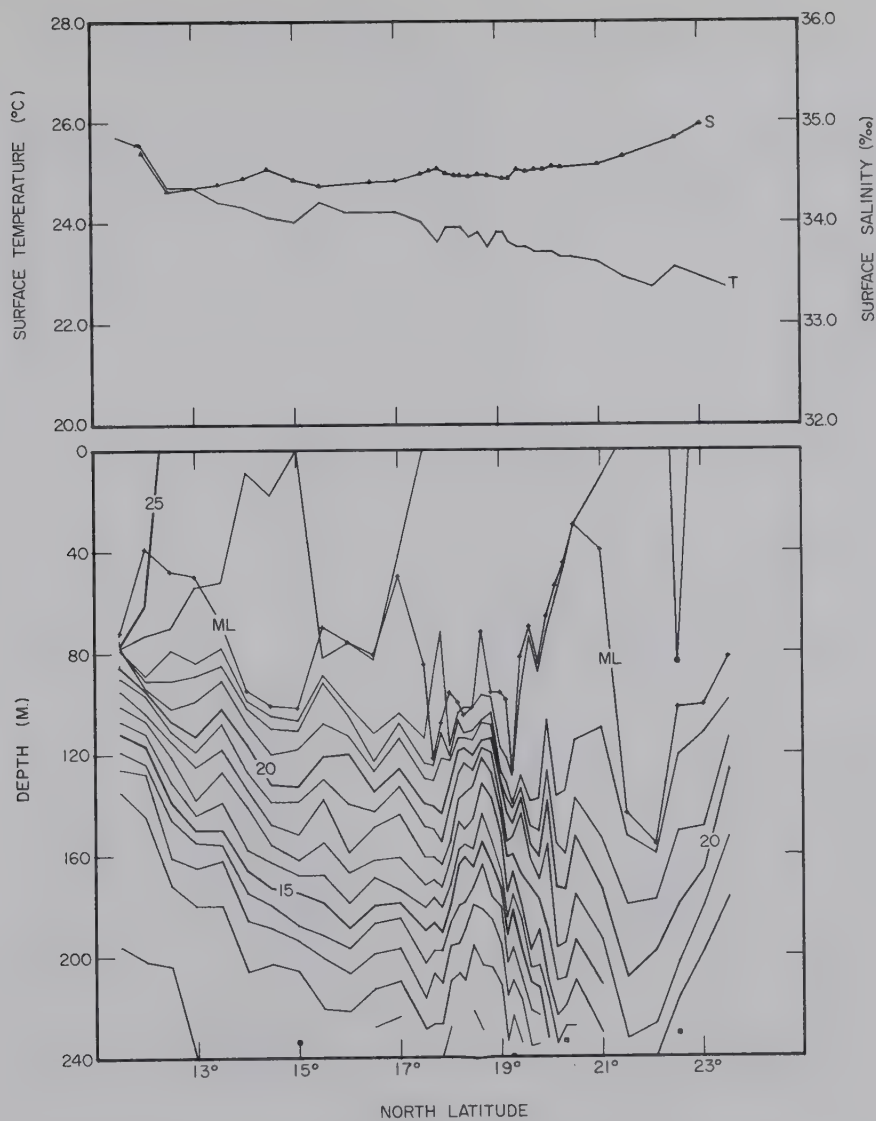


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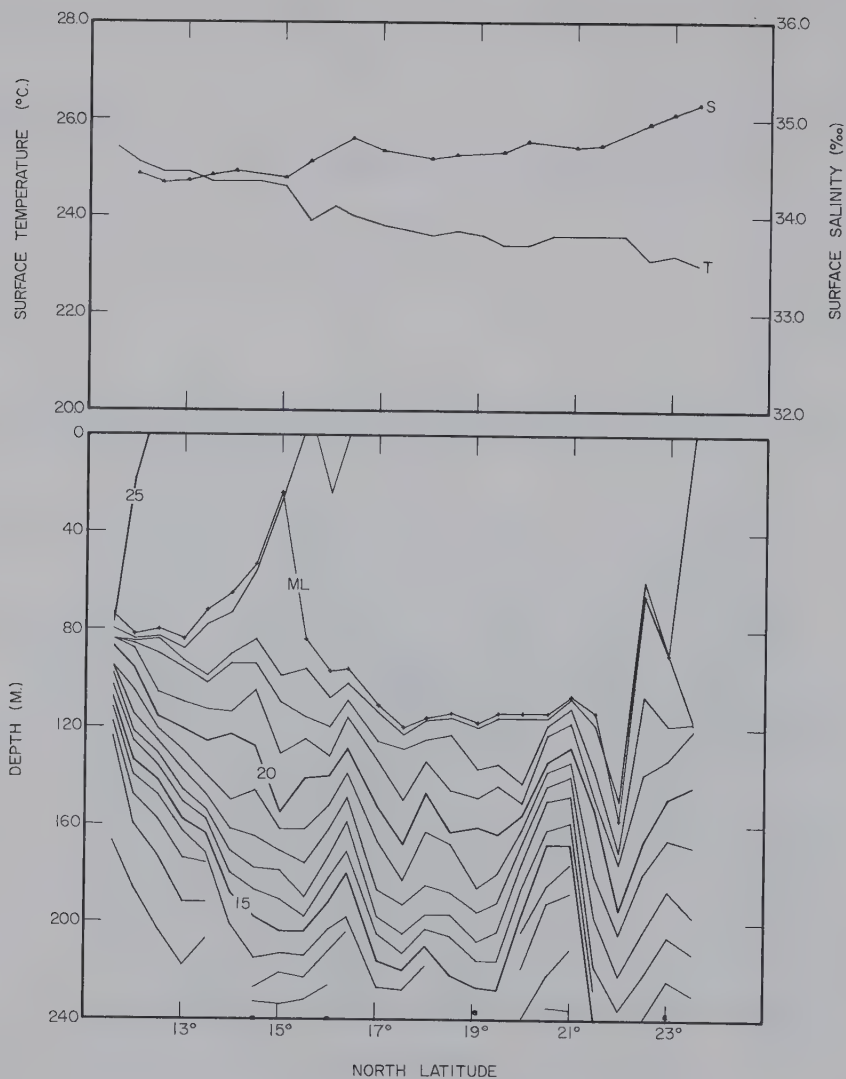


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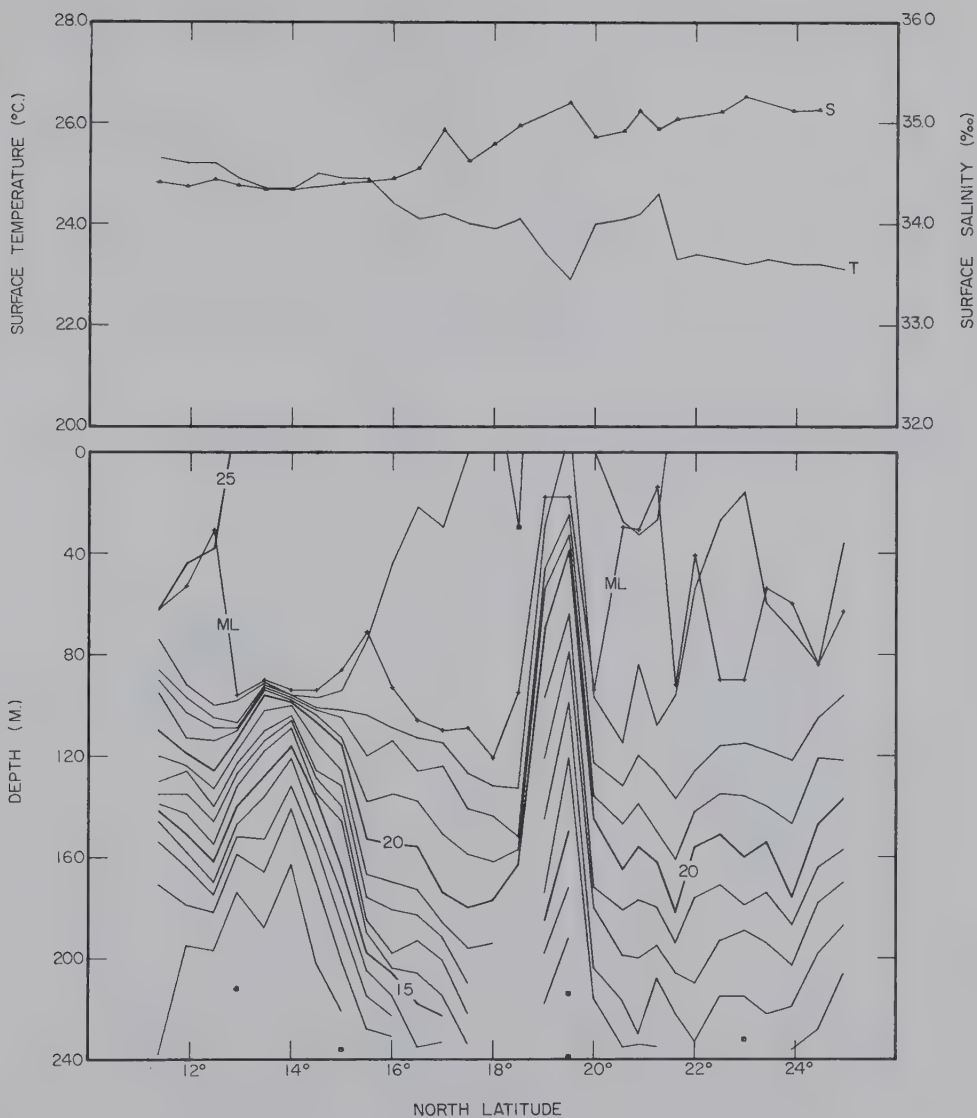


Figure 11.--Surface temperatures ($^{\circ}\text{C}.$) and salinities (‰) (upper panel) and BT temperature ($^{\circ}\text{C}.$) section (lower panel) for Townsend Crowell cruise 2 along long. $157^{\circ}\text{W}.$ The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

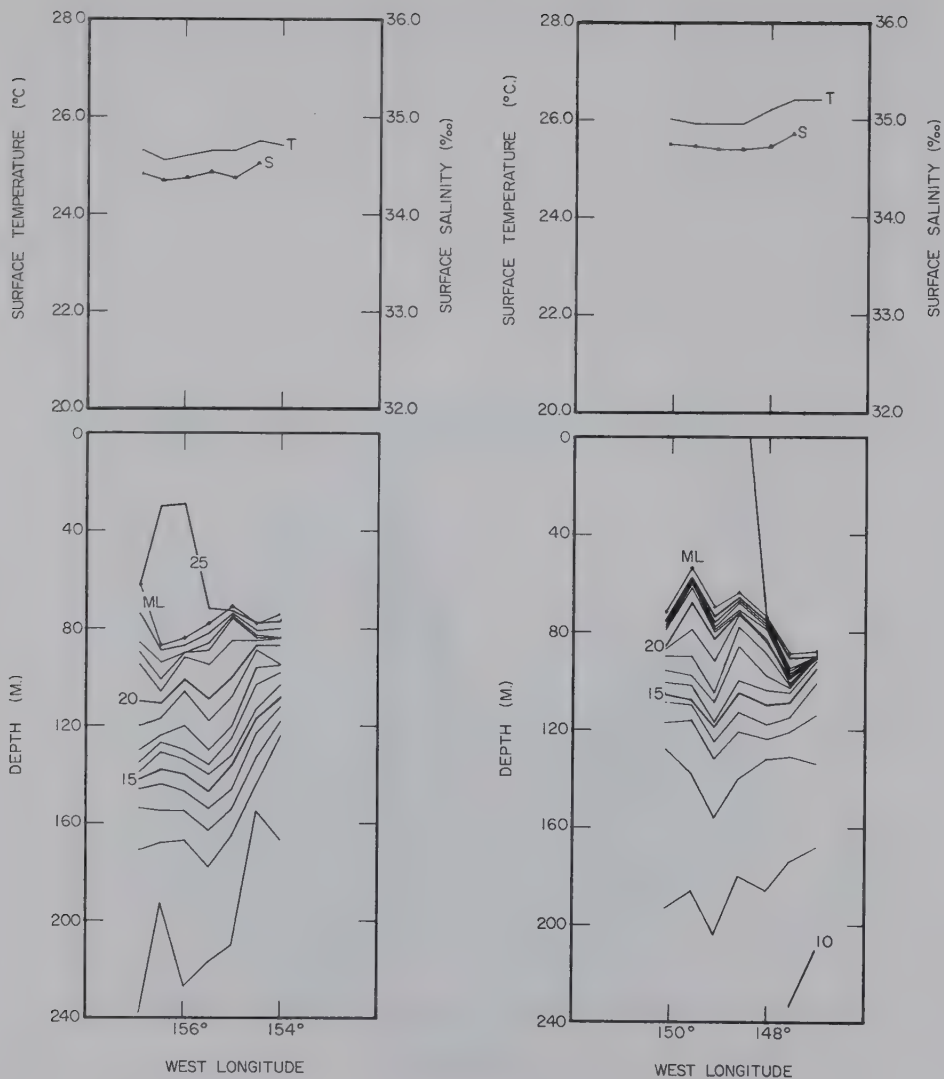


Figure 12.--Surface temperatures ($^{\circ}\text{C}$.) and salinities (‰) (upper panel) and zonal BT temperature ($^{\circ}\text{C}$.) section (lower panel) for Townsend Cromwell cruise 2 between stations 7 and 8, 25 and 26. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

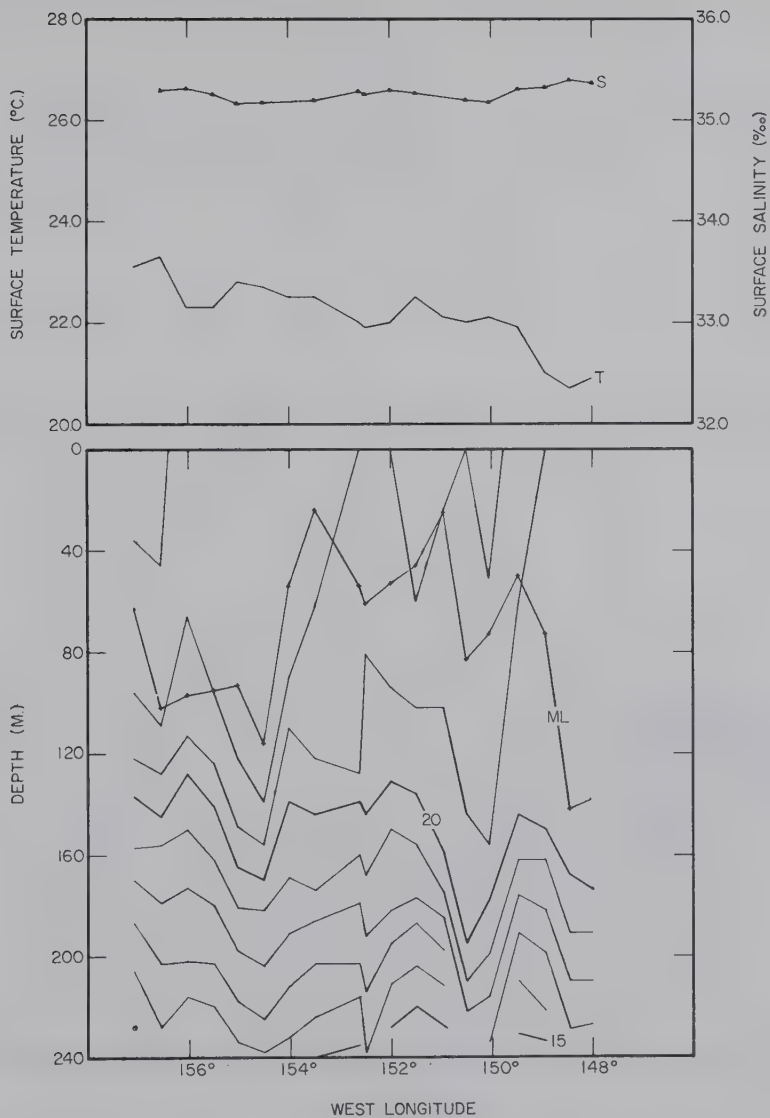


Figure 13.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and zonal BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 2 between stations 37 and 40. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

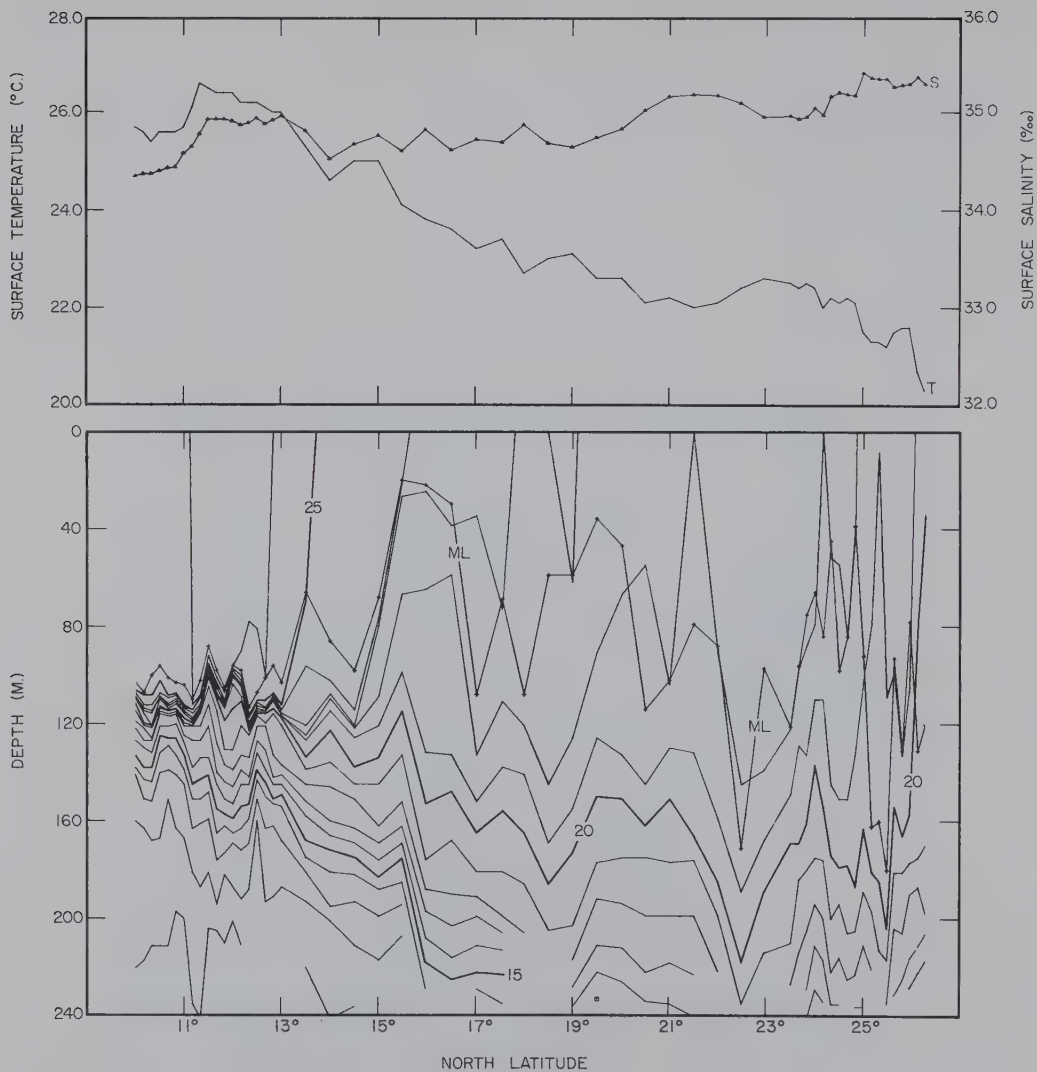


Figure 14.--Surface temperatures ($^{\circ}\text{C}$.) and salinities (‰) (upper panel) and BT temperature ($^{\circ}\text{C}$.) section (lower panel) for Townsend Cromwell cruise 3 along long. 148°W . The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

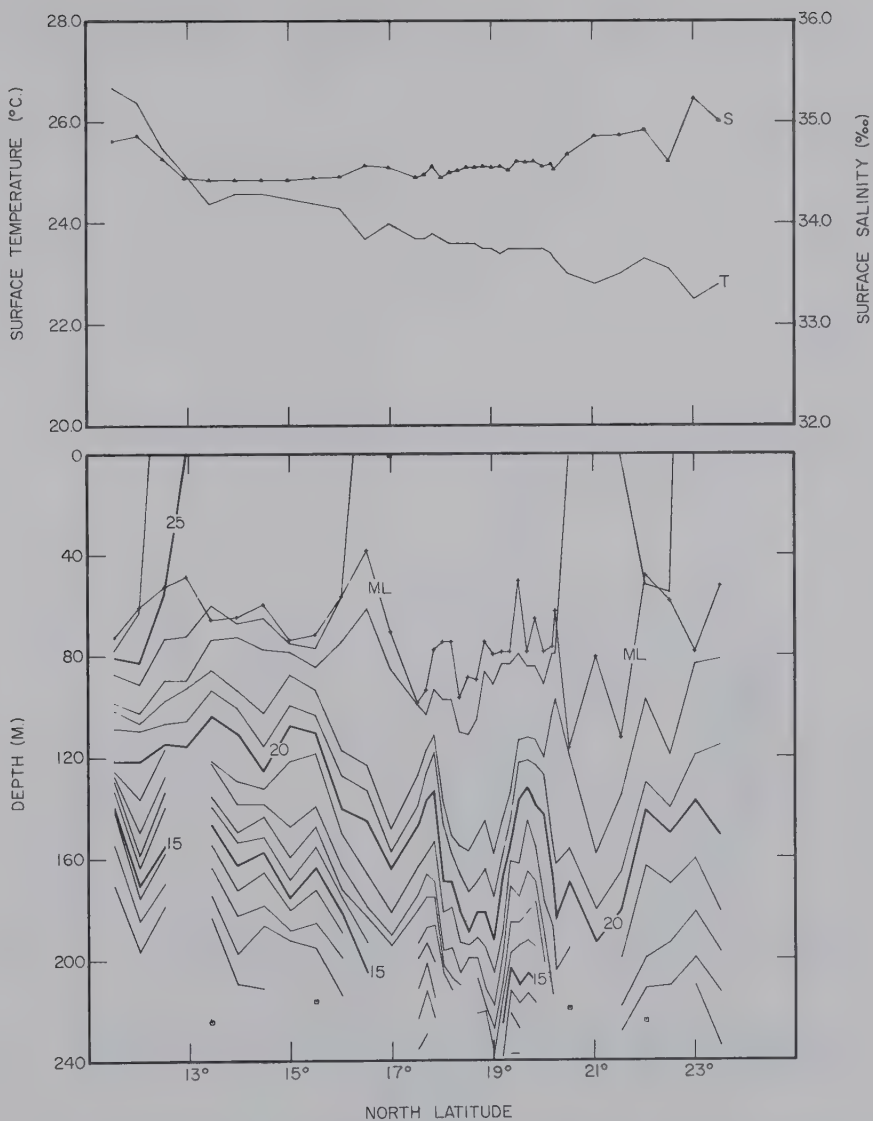


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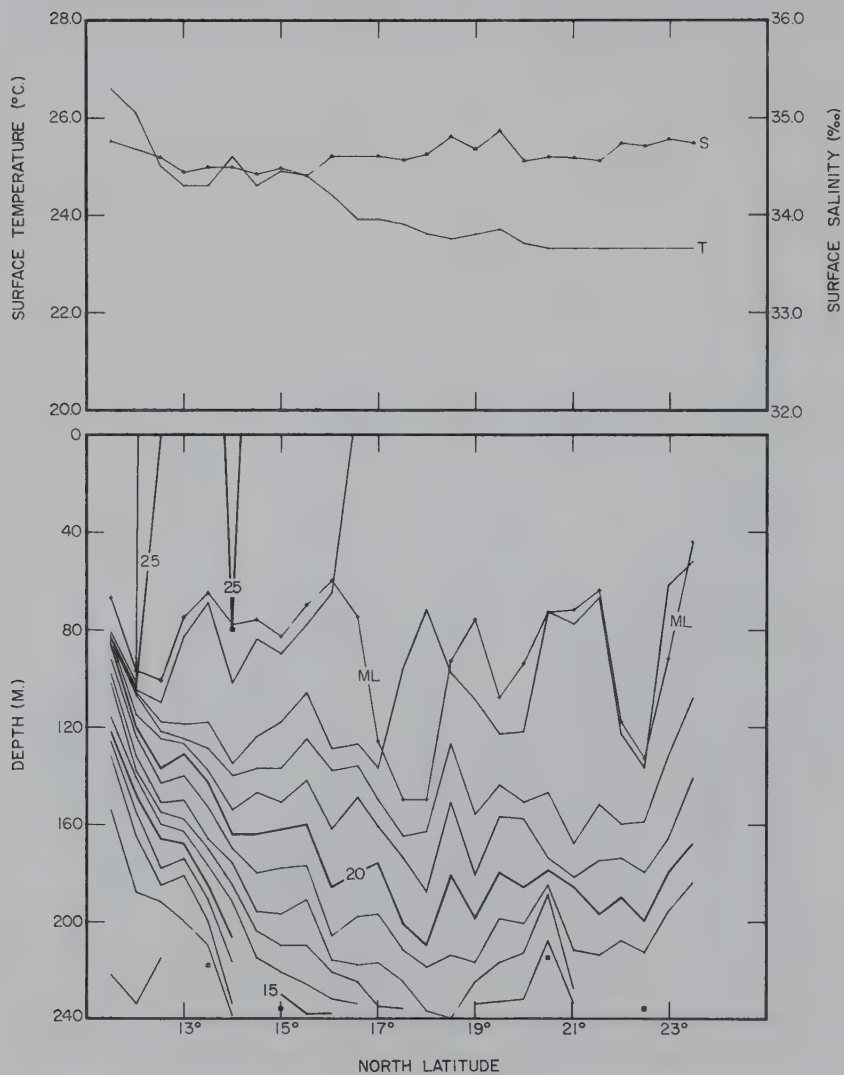


Figure 16.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 3 along long. 154° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

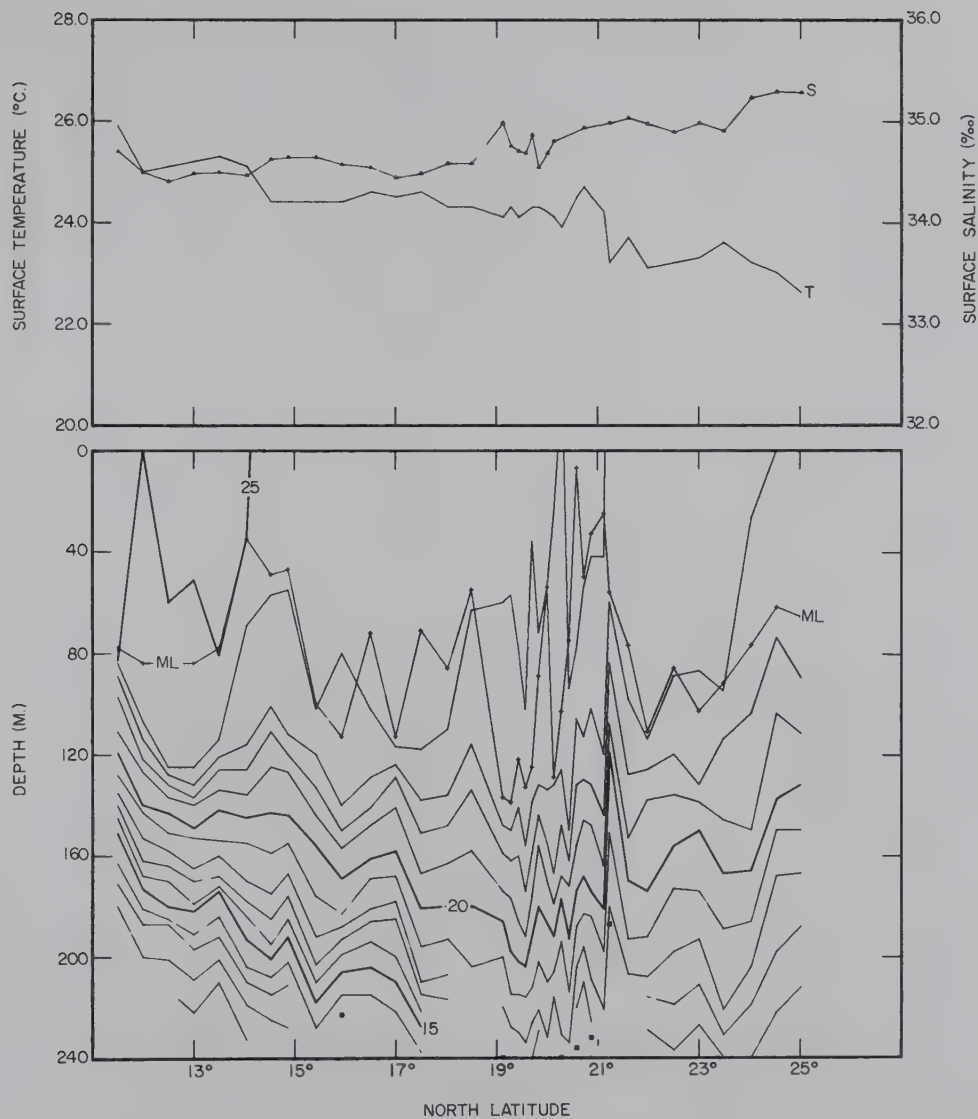


Figure 17.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 3 along long. 157° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

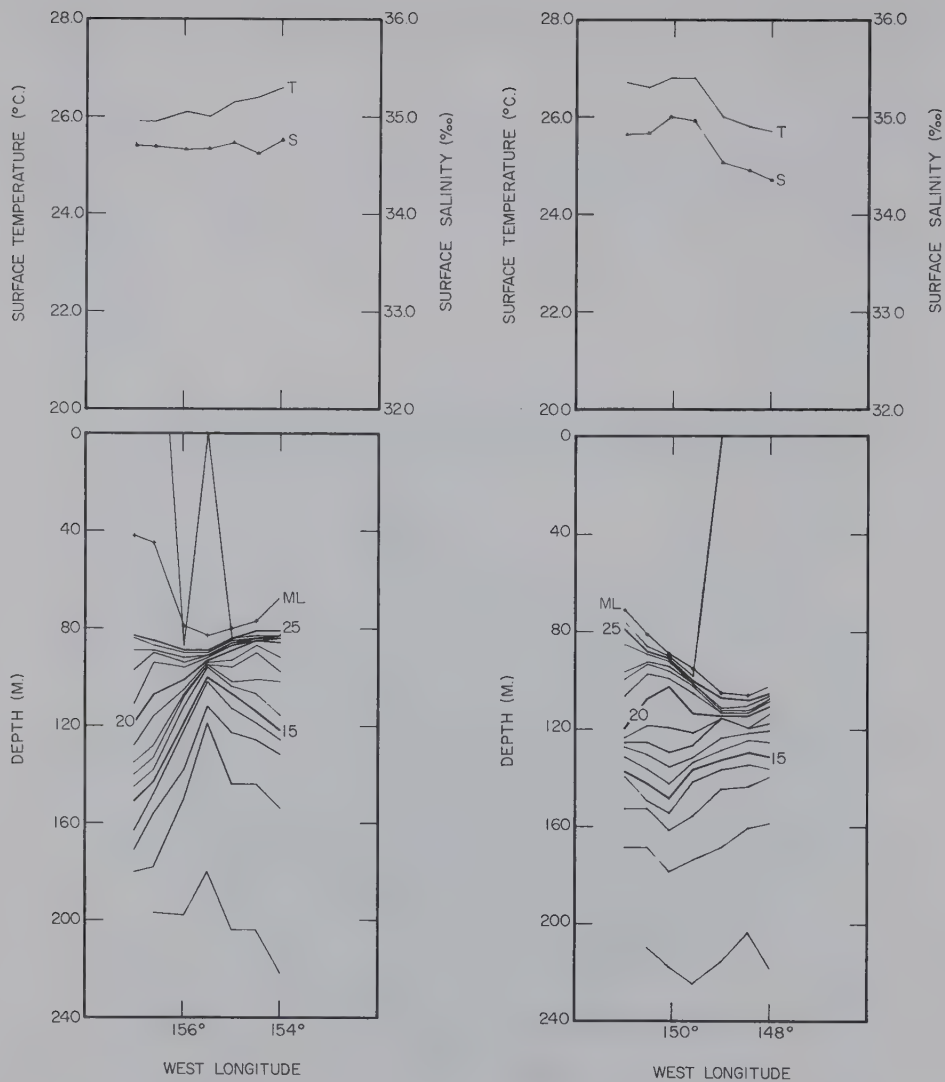


Figure 18.--Surface temperatures (° C.) and salinities (‰) (upper panel) and zonal BT temperature (° C.) section (lower panel) for Townsend Cromwell cruise 3 between stations 7 and 8, 25 and 26. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

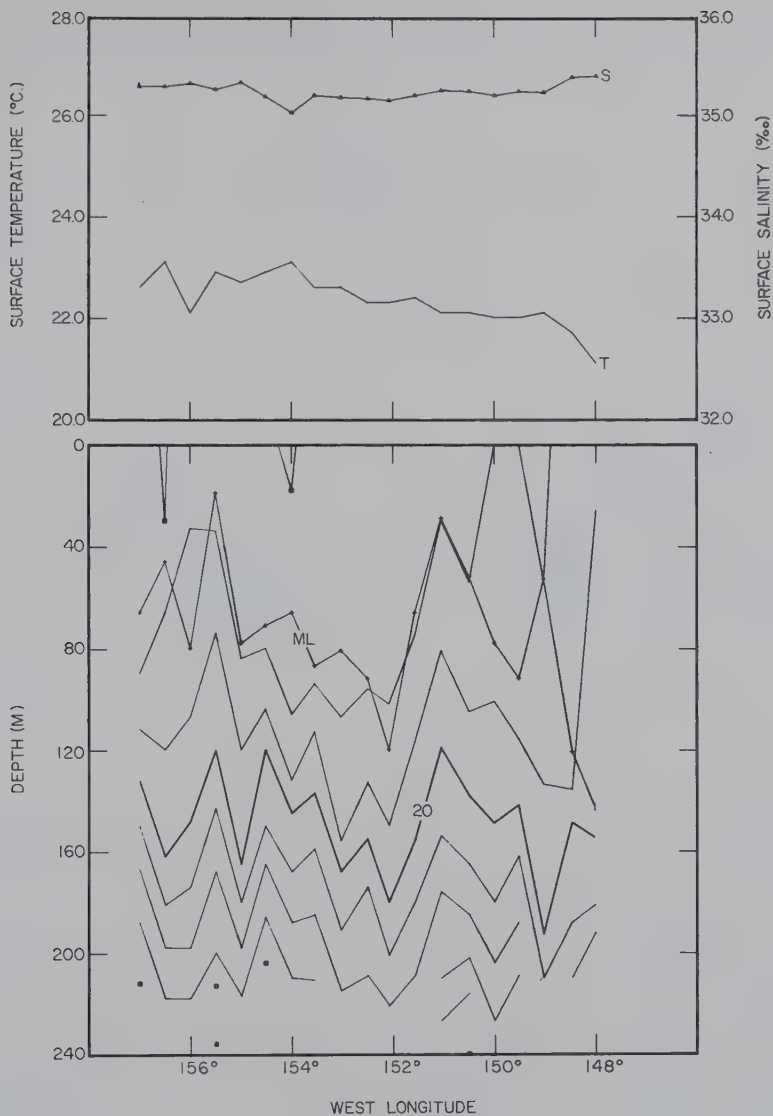
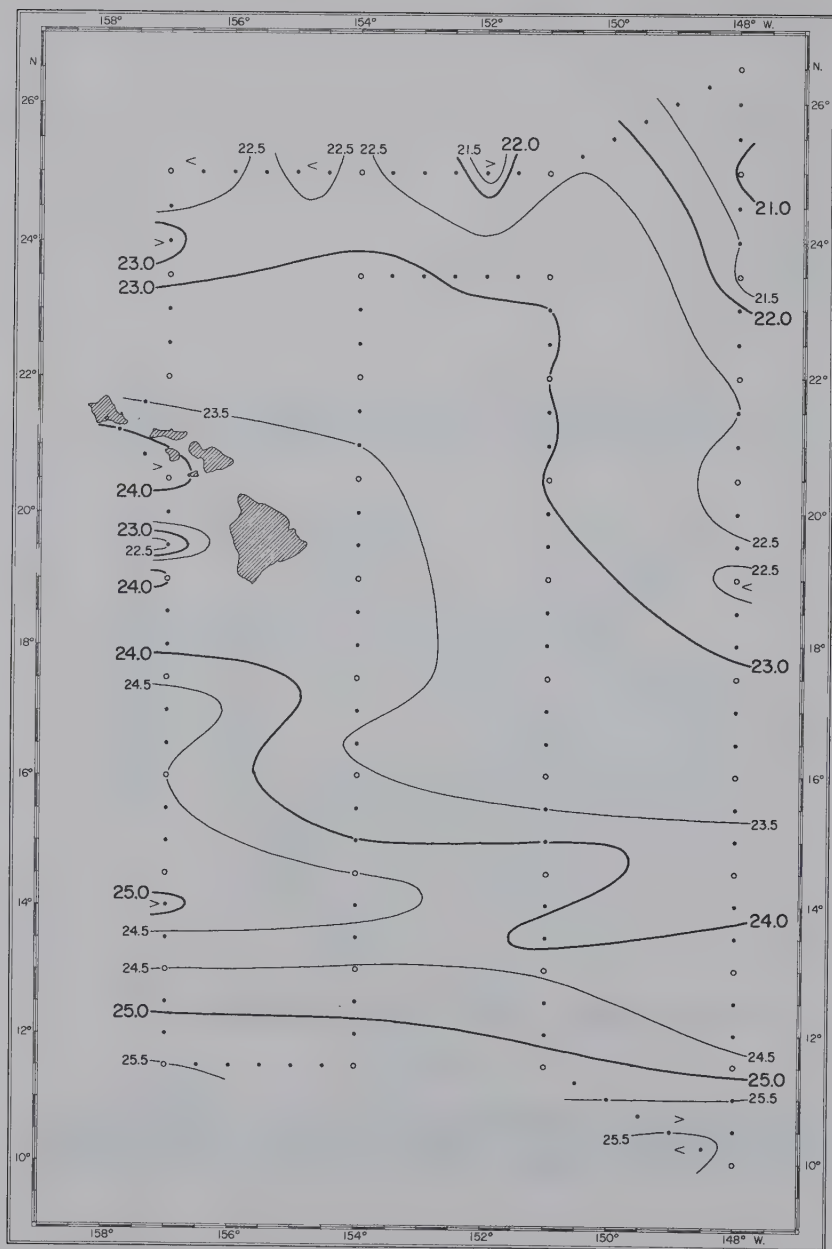


Figure 19.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and zonal BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 3 between stations 37 and 40. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.



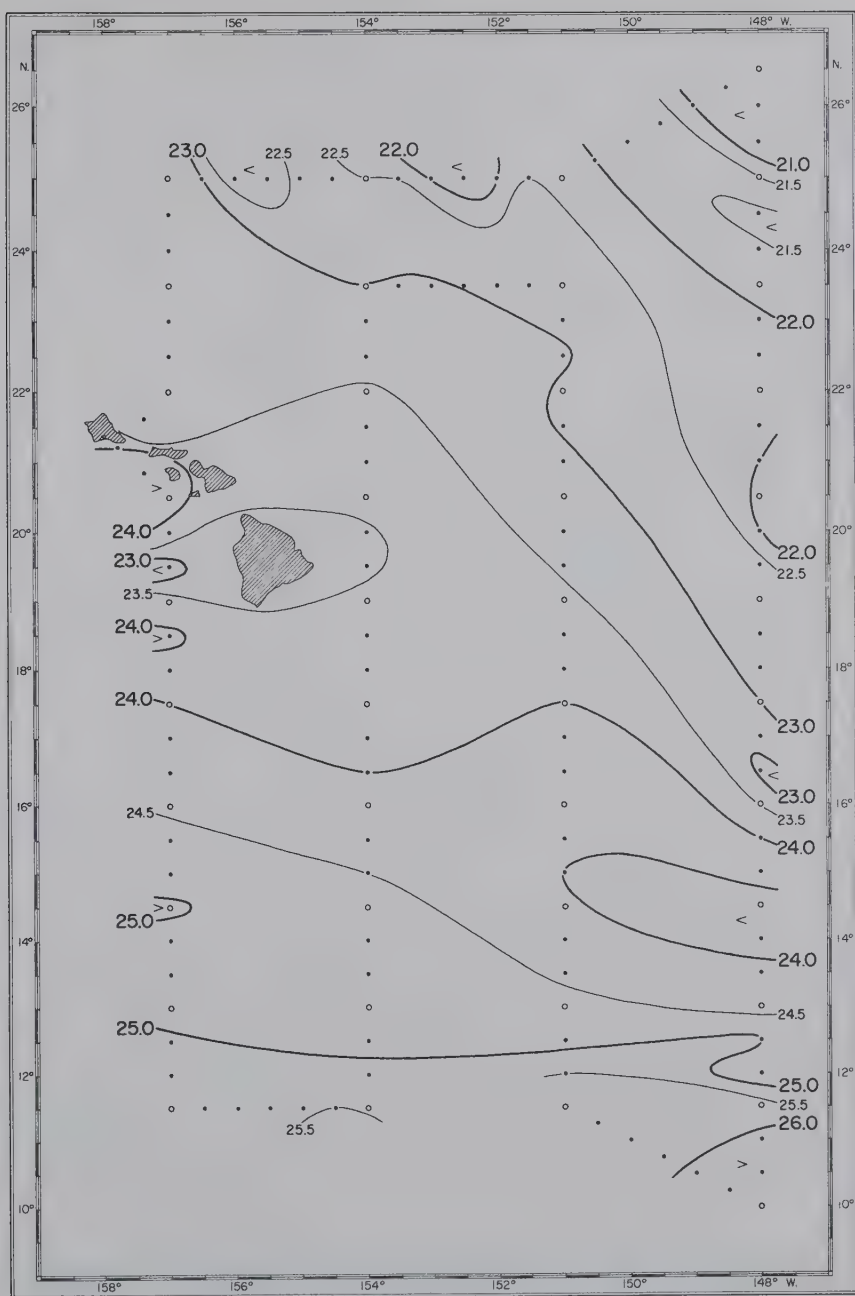


Figure 21.--Surface temperature distribution ($^{\circ}$ C.) based on bucket temperature at each BT cast for Townsend Cromwell cruise 2.

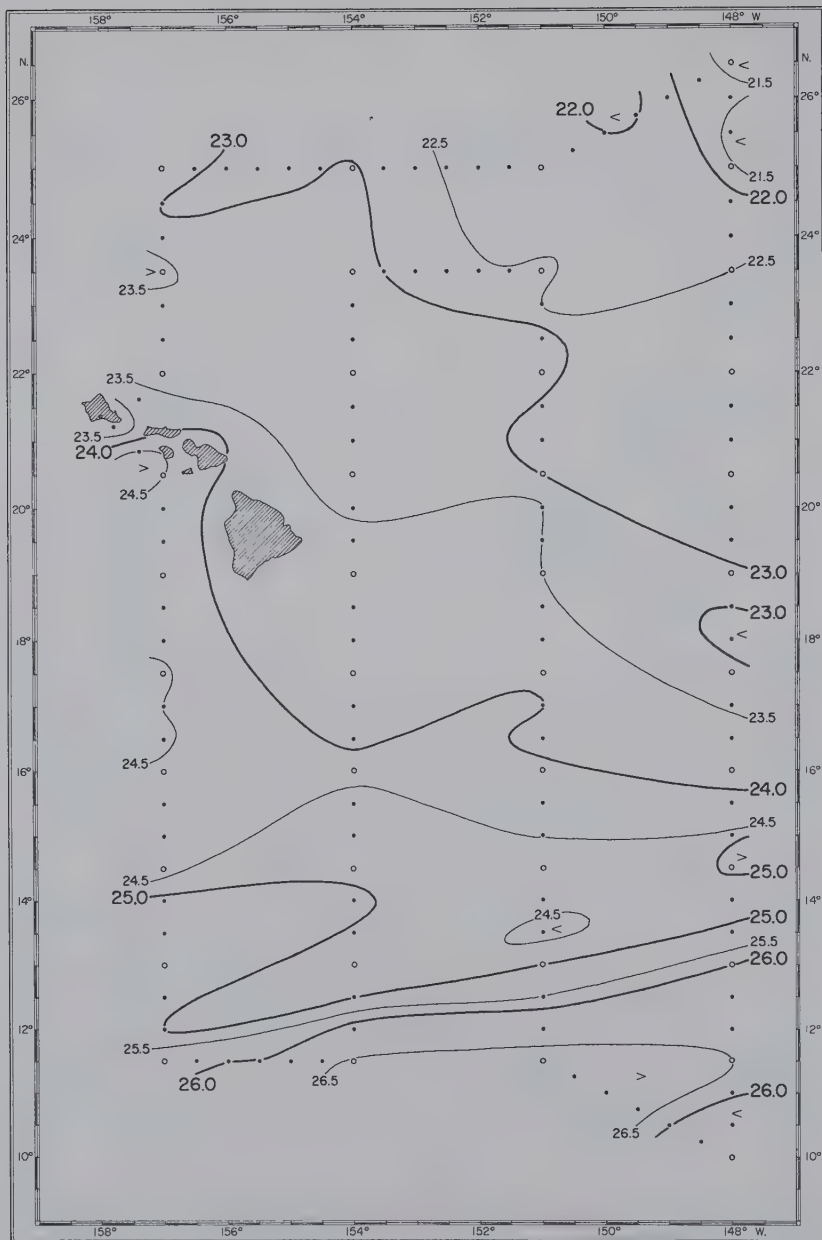


Figure 22.--Surface temperature distribution ($^{\circ}$ C.) based on bucket temperature at each BT cast for Townsend Cromwell cruise 3.

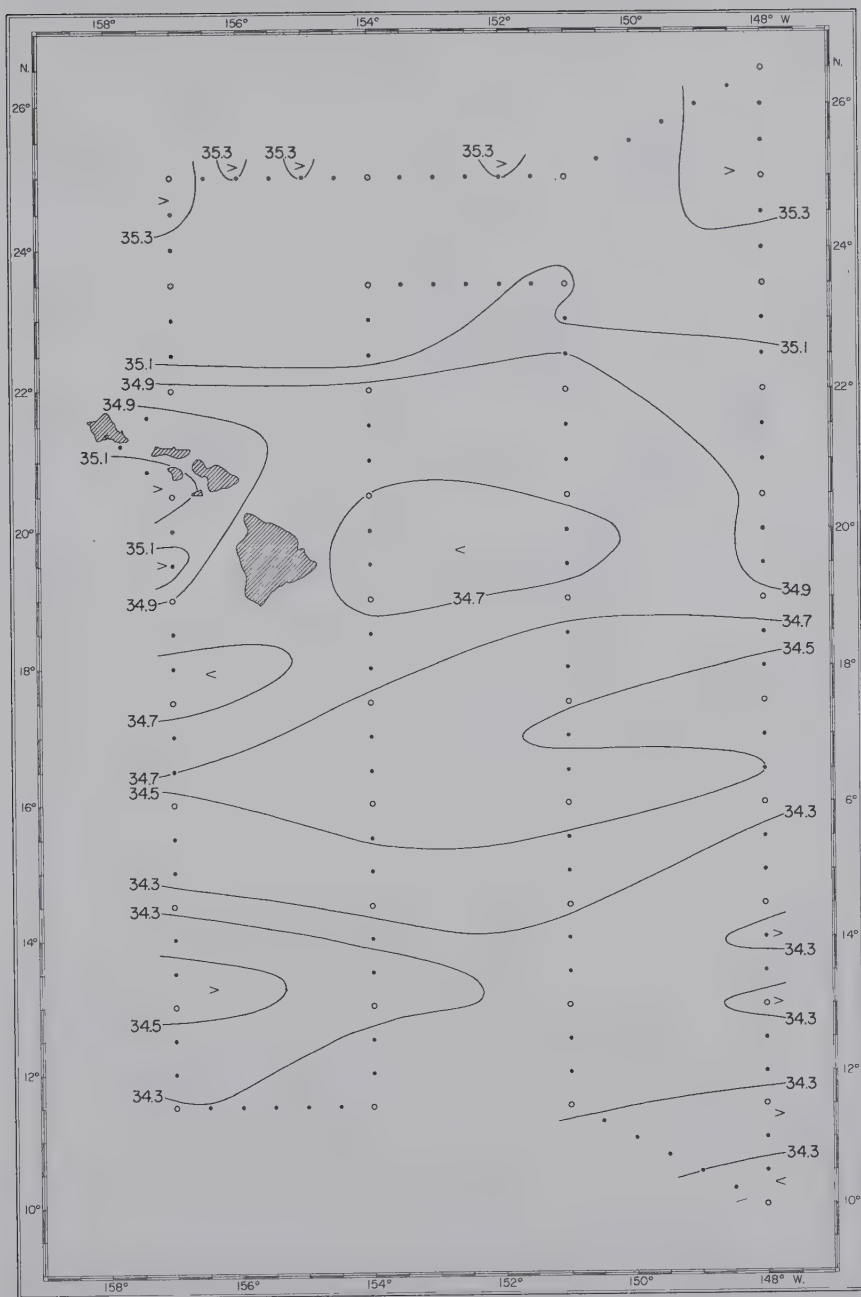


Figure 23.--Surface salinity distribution (‰) from bucket salinity samples at each BT cast for Townsend Cromwell cruise 1.

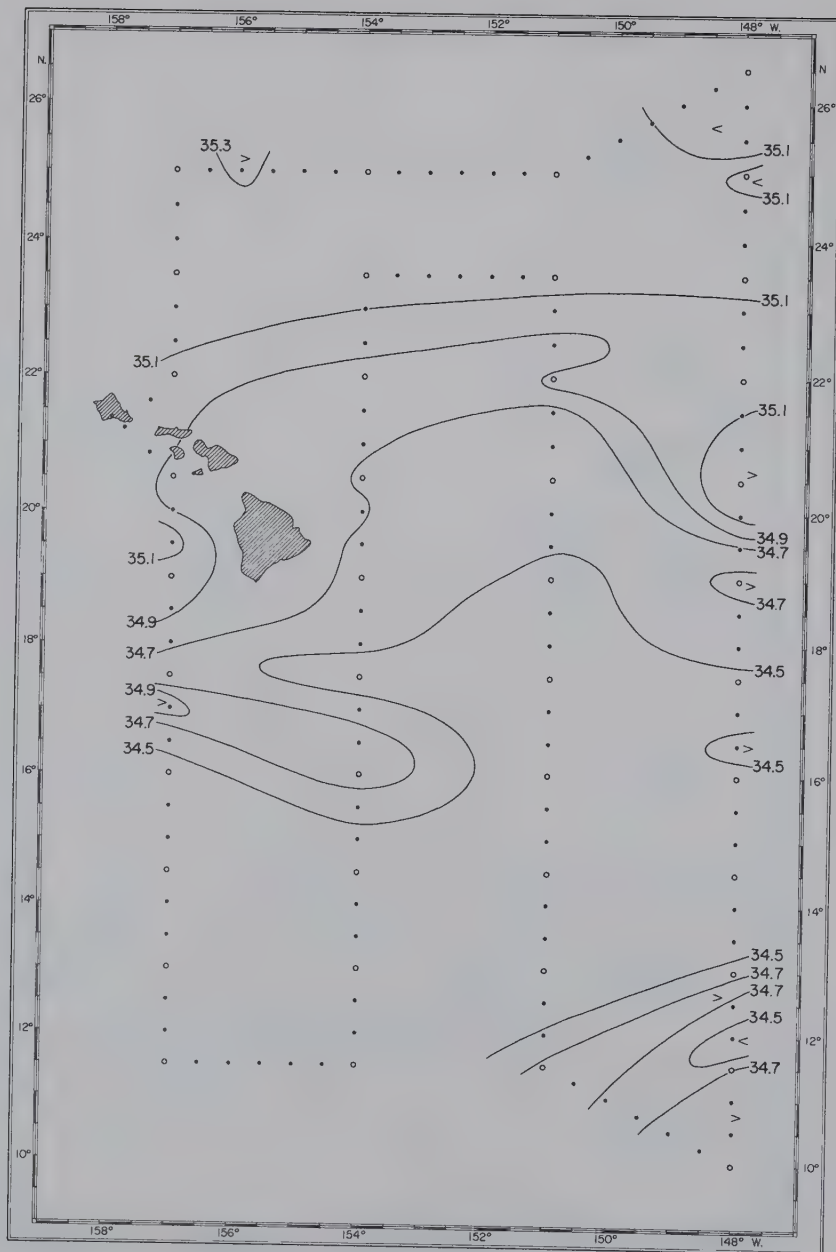


Figure 24.--Surface salinity distribution ($^{\circ}/_{\infty}$) from bucket salinity samples at each BT cast for Townsend Cromwell cruise 2.

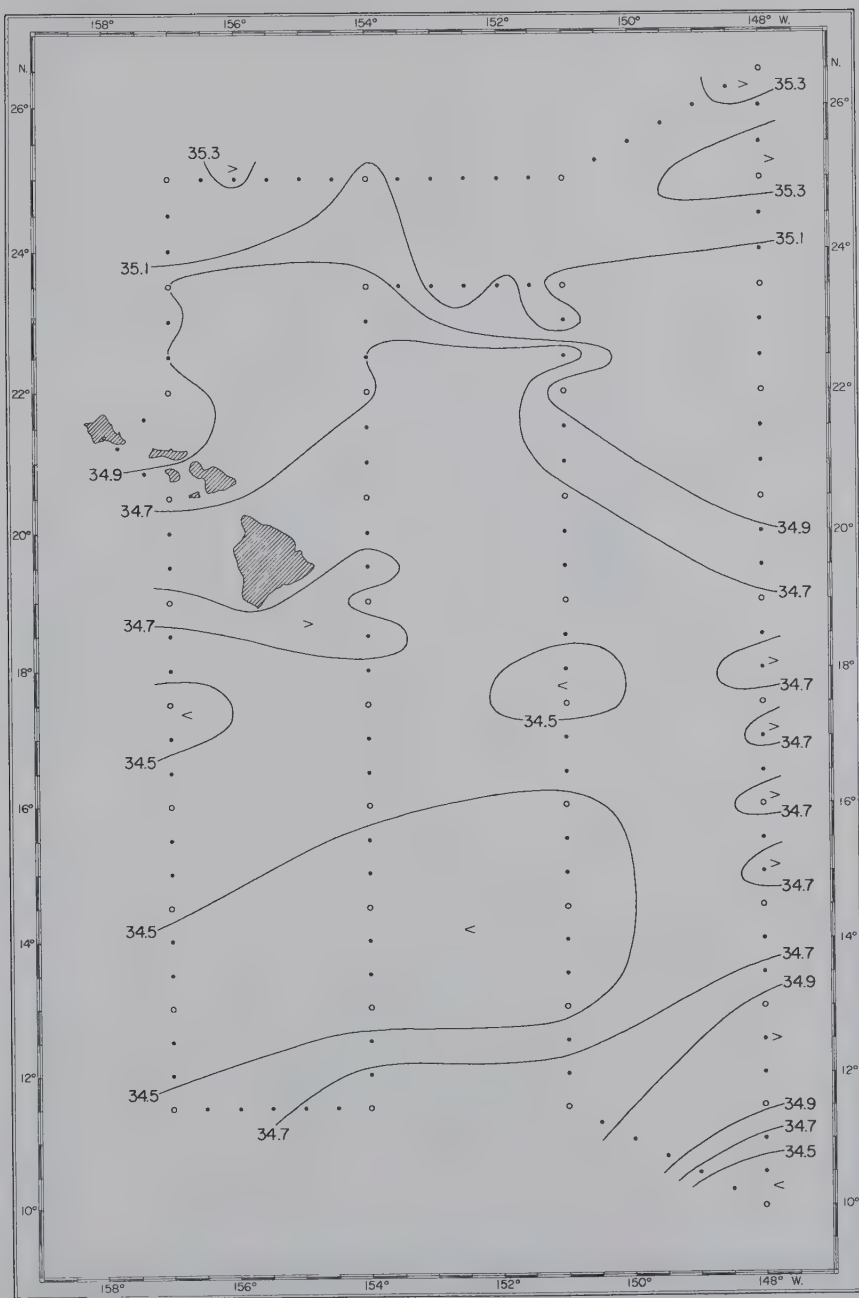


Figure 25.--Surface salinity distribution (‰) from bucket salinity samples at each BT cast for Townsend Cromwell cruise 3.

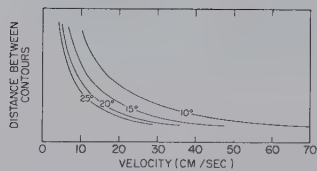
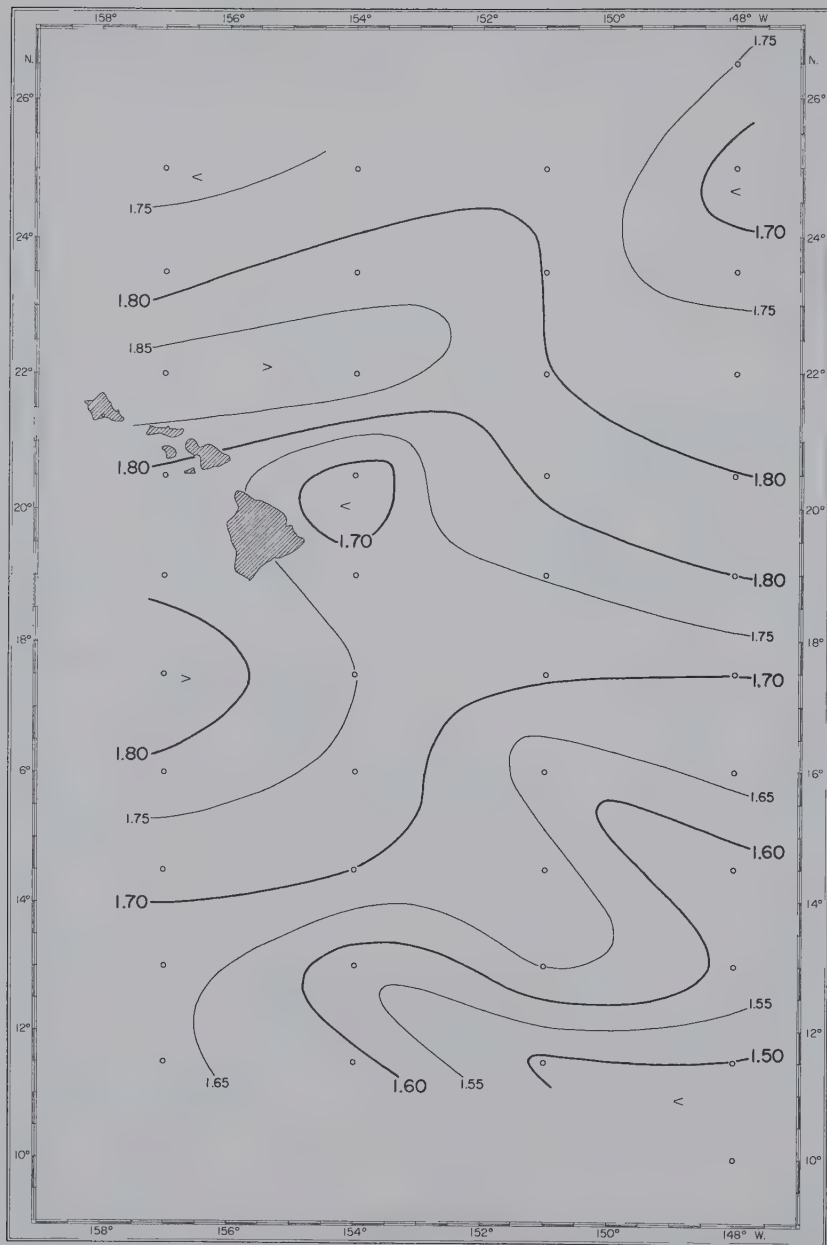


Figure 26.--Dynamic topography (dynamic meters) relative to 1,000 m. for Townsend Cromwell cruise 1.

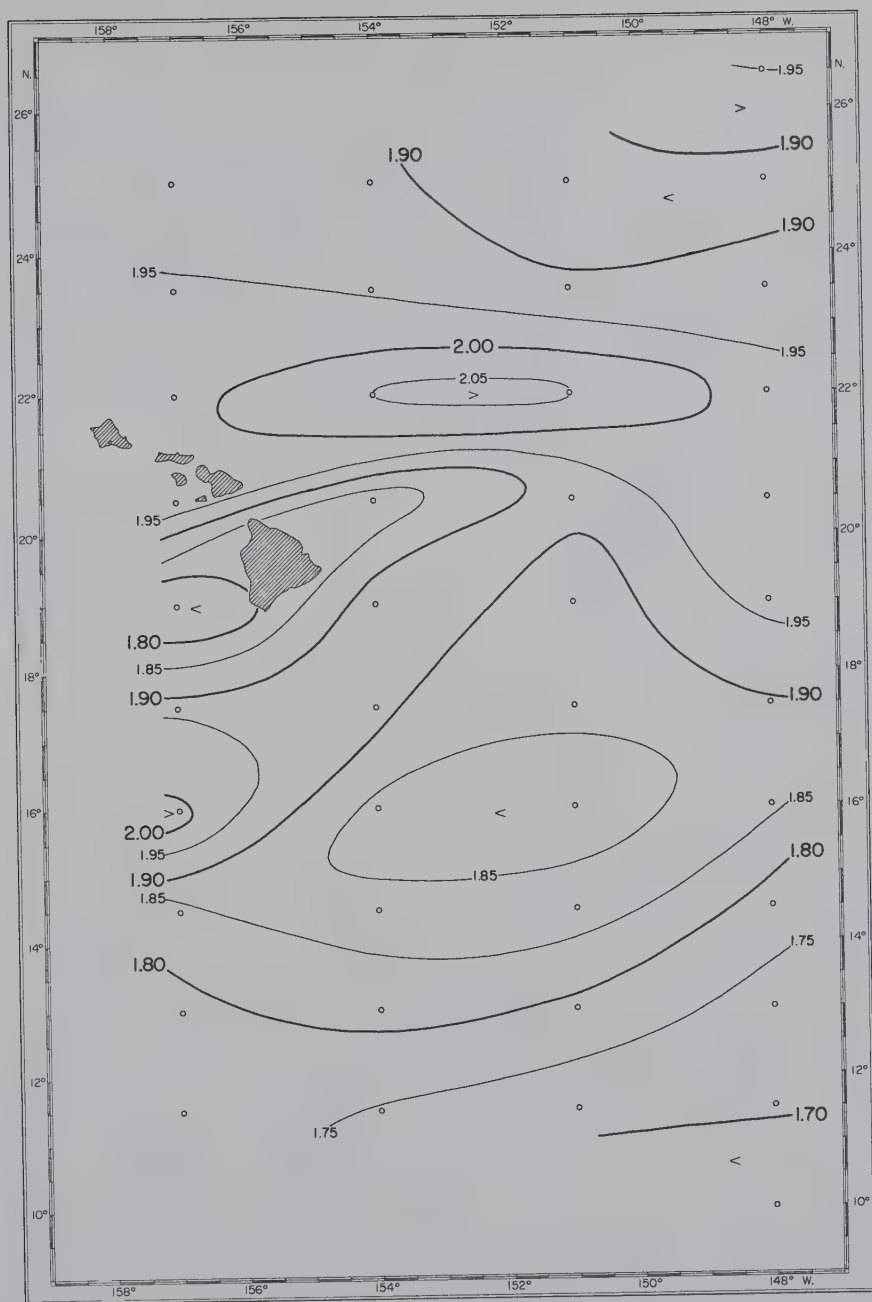
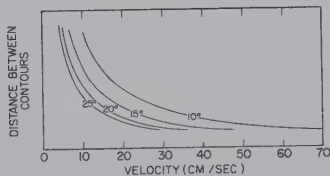


Figure 27.--Dynamic topography (dynamic meters) relative to 1,200 m. for Townsend Cromwell cruise 2.



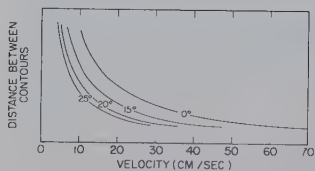
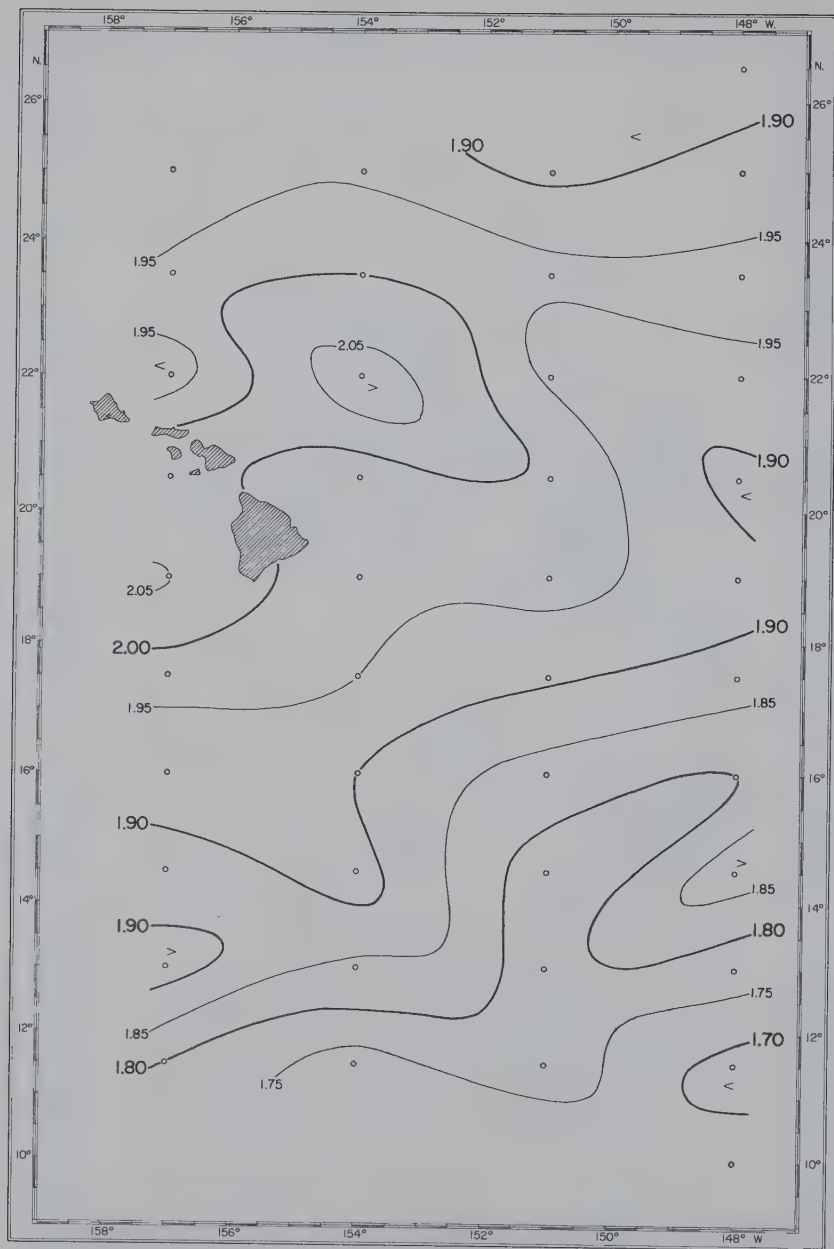


Figure 28.--Dynamic topography (dynamic meters) relative to 1,200 m. for Townsend Cromwell cruise 3.

TABLES

Information printed in the station heading has the following units or coding. Latitude and longitude are in degrees and minutes. Wet and dry bulb temperatures are in degrees Celsius. Wind speed is in knots. Barometric pressure is in tens and units of millibars (initial 9 or 10 omitted). Wind direction, weather, visibility, cloud type, and cloud cover are coded in the manner described by the International Ship Weather Code.

The observed data are presented in the following units: Depth in meters; temperature in degrees Celsius; salinity in grams per kilogram; oxygen in milliliters per liter; and phosphate ($\text{PO}_4\text{-P}$) in microgram-atoms per liter.

The derived data are listed with the following units: Density anomaly as $\sigma\text{-t}$; specific volume anomaly (δ) in 10^5 cubic centimeters per gram; and dynamic depth anomaly (dyn. dpth.) in dynamic meters.

Table 1.--Original and derived oceanographic data for Townsend Cromwell cruise 1

ORIGINAL DATA					DERIVED DATA					INTERPOLATED DATA				
CROMWELL DRY BULB 24.5		1, STATION WET BULB 20.1	1, 20-35N LAT, 157-16W LONG, FEB. 15, 1964, 2100 G.C.T. WIND SPEED 15, DIR. 08 BAR. 19				WEATHER 00		VIS. 8	CLOUD TYPE 8, COVER 1				
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN-DEPTH.		
0.	26.34	34.99			23.55	434.6	0.	24.34	34.99	23.55	434.6	0.000		
11.	24.32	35.00			23.57	433.7	10.	24.32	35.00	23.57	433.8	0.044		
30.Δ	24.30	35.04			23.60	431.0	20.	24.31	35.02	23.58	432.4	0.088		
50.	24.29	35.07			23.63	429.3	30.	24.30	35.04	23.60	431.0	0.131		
75.	23.88	35.19			23.84	410.0	50.	24.29	35.07	23.63	429.3	0.218		
101.	22.77	35.14			24.13	383.8	75.	23.88	35.19	23.84	410.0	0.324		
126.	21.78	35.12			24.19	359.5	100.	22.82	35.14	24.11	384.9	0.424		
150.	20.16	35.06			24.78	322.6	150.	20.16	35.06	24.78	322.6	0.602		
176.	18.98	34.96			25.01	301.3	200.	17.10	34.77	25.33	271.5	0.752		
201.	17.02	34.76			25.34	270.4	250.	13.92	34.42	25.77	229.9	0.878		
226.	15.66	34.59			25.53	253.2	300.	11.70	34.23	26.07	202.3	0.987		
250.	13.92	34.42			25.77	229.9	400.	8.18	34.17	26.62	150.1	1.165		
275.	12.47	34.28			25.96	212.4	500.	6.70	34.21	26.86	127.4	1.305		
300.	11.70	34.23			26.07	202.3	600.	5.83	34.32	27.06	108.9	1.424		
400.	8.18	34.17			26.62	150.1	700.	5.26	34.40	27.19	96.8	1.528		
500.	6.70	34.21			26.86	127.4	800.	4.84	34.46	27.29	88.2	1.622		
600.	5.83	34.32			27.06	108.9	1000.	4.05	34.53	27.43	75.3	1.787		
800.	4.84	34.46			27.29	88.2	1200.	3.45	34.56	27.51	67.5	1.932		
1000.	4.05	34.53			27.43	75.3								
1200.	3.45	34.56			27.51	67.5								
1426.	2.85	34.60			27.60	59.0								

CROMWELL DRY BULB 24.0		1, STATION WET BULB 20.0		2, 19-1N LAT, 156-57W LONG, FEB. 16, 1964, 1000 G.C.T. WIND SPEED 31, DIR. 06 BAR. 17				WEATHER 00		VIS. 7	CLOUD TYPE , COVER			
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN-DEPTH.		
0.	24.36	34.79			23.40	449.5	0.	24.36	34.79	23.40	449.5	0.000		
23.	24.36	34.87			23.46	444.7	10.	24.37	34.83	23.43	447.0	0.045		
30. ^Δ	24.35	34.88			23.47	443.9	20.	24.36	34.86	23.45	445.1	0.090		
41. ^Δ	24.33	34.91			23.50	441.6	30.	24.35	34.88	23.47	443.9	0.135		
50. ^Δ	24.34	34.95			23.52	439.4	50.	24.34	34.95	23.52	439.4	0.224		
64. ^Δ	24.35	35.01			23.57	435.9	75.	24.26	35.09	23.65	428.0	0.333		
75. ^Δ	24.26	35.09			23.65	428.0	100.	23.92	35.19	23.83	412.3	0.439		
92.	23.94	35.18			23.82	413.1	150.	20.60	35.08	24.68	332.5	0.627		
112.	23.72	35.18			23.88	407.7	200.	16.86	34.74	25.37	268.0	0.778		
137.	21.50	35.11			24.46	353.2	250.	12.71	34.29	25.92	215.4	0.900		
159.	20.02	35.05			24.81	320.1	300.	10.29	34.12	26.24	185.5	1.001		
179.	17.58	34.83			25.26	278.0	400.	7.50	34.07	26.64	147.5	1.169		
202.	16.61	34.71			25.40	264.7	500.	6.39	34.23	26.91	121.9	1.305		
246.	12.93	34.31			25.89	218.2	600.	5.49	34.34	27.12	103.1	1.419		
447.	7.13	34.18			26.78	134.8	700.	4.96	34.43	27.25	90.5	1.516		
639.	5.31	34.39			27.18	97.5	800.	4.69	34.46	27.31	86.2	1.606		
710.	4.91	34.44			27.26	89.6	1000.	4.00	34.54	27.44	74.0	1.768		
778.	4.73	34.45			27.29	87.4								
821.	4.63	34.47			27.32	85.1								
845.	4.51	34.47			27.33	83.9								
868.	4.43	34.48			27.35	82.4								
875.	4.39	34.49			27.36	81.2								
1048.	3.94	34.53			27.44	74.4								
TEMPERATURE ERROR TERM AT		300. METERS IS		0.46										
SALINITY ERROR TERM AT		300. METERS IS		0.08										
TEMPERATURE ERROR TERM AT		400. METERS IS		0.42										
SALINITY ERROR TERM AT		400. METERS IS		0.07										

CROMWELL DRY BULB 24.0		1, STATION WET BULB 20.9		3, 17-29N LAT, 157- 0W LONG, FEB. 16, 1964, 2300 G.C.T. WIND SPEED 25, DIR. 05 BAR. 16				WEATHER 02		VIS. 8	CLOUD TYPE 8, COVER 2			
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN-DEPTH.		
0.	24.15	34.58			23.30	458.7	0.	24.15	34.58	23.30	458.7	0.000		
9.	24.14	34.58			23.30	458.8	10.	24.14	34.59	23.30	458.8	0.047		
50.Δ	24.14	34.58			23.30	460.4	20.	24.14	34.58	23.30	459.1	0.093		
65.	24.14	34.58			23.30	460.9	30.	24.14	34.58	23.30	459.5	0.139		
75.Δ	24.14	34.58			23.30	461.3	50.	24.14	34.58	23.30	460.4	0.232		
92.	24.14	34.57			23.30	462.7	75.	24.14	34.58	23.30	461.3	0.348		
100.Δ	24.14	35.13			23.72	422.7	100.	24.14	35.13	23.72	422.7	0.459		
115.	24.14	35.13			23.72	423.3	150.	21.99	35.14	24.35	364.6	0.658		
142.	22.37	35.13			24.23	375.2	200.	18.00	34.85	25.18	286.3	0.822		
165.	21.16	35.13			24.57	343.8	250.	15.00	34.50	25.61	246.4	0.956		
189.	18.78	34.94			25.05	298.4	300.	10.61	34.17	26.22	187.5	1.065		
212.	17.28	34.76*			25.28	276.7	400.	8.05	34.18	26.64	147.7	1.235		
241.	15.80	34.57			25.48	258.2	500.	6.72	34.30	26.93	120.7	1.370		
296.	10.81	34.18			26.19	190.1	600.	5.93	34.37	27.09	106.3	1.485		
395.	8.14	34.17			26.62	149.4	700.	5.39	34.43	27.20	96.4	1.587		
485.	6.87	34.29			26.90	123.6	800.	4.97	34.48	27.28	88.7	1.681		
595.	5.96	34.37			27.08	106.9	1000.	4.15	34.55	27.43	75.1	1.847		
789.	5.02	34.47			27.27	89.6								
904.	4.52	34.52			27.37	80.9								
1006.	4.13	34.55			27.44	74.8								
1181.	3.66	34.57			27.50	69.1								

Table 1.-Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA			
CROMWELL DRY BULB 24.0	1, STATION WET BULB 20.0	4, 16- ON LAT, 156-59W LONG, FEB. 17, 1964, 1200 G.C.T.	5, 14-29N LAT, 156-59W LONG, FEB. 17, 1964, 2300 G.C.T.	WIND SPEED 30, DIR. 05	BAR. 15	WEATHER 00	VIS. 7	CLOUD TYPE	, COVER		

OBSERVED DATA REJECTED DUE TO EQUIPMENT FAILURE

CROMWELL		1, STATION		5, 14-29N LAT, 156-56W LONG, FEB. 17, 1964, 2300 G.C.T.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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TEMPERATURE ERROR TERM AT 100. METERS IS 0.16

CROMWELL DRY BULB 24.0													1, STATION WET BULB 21.2													6, 13- ON LAT, 157- 0W LONG, FEB. 18, 1964, 1300 G.C.T.													7, 13- ON LAT, 157- 0W LONG, FEB. 18, 1964, 1300 G.C.T.													WIND SPEED 24, DIR. 06													BAR. 14													WEATHER 02													VIS. 8													CLOUD TYPE													, COVER												
DEPTH		TEMP.		SAL.		CXY.		PD4-P		SIGMA-T		DELTA		DEPTH		TEMP.		SAL.		SIGMA-T		DELTA		DYN.DPTH.																																																																																																									
0.		24.58		34.63						23.21		467.4		0.		24.58		34.63		23.21		467.4		0.000																																																																																																									
11.		24.57		34.63						23.21		467.5		10.		24.57		34.63		23.21		467.5		0.048																																																																																																									
51.		24.58		34.63						23.21		469.4		20.		24.57		34.63		23.21		467.9		0.095																																																																																																									
75.Δ		24.57		34.63						23.21		470.0		30.		24.57		34.63		23.21		468.3		0.142																																																																																																									
76.		24.58		34.63						23.21		470.3		50.		24.58		34.63		23.21		469.3		0.236																																																																																																									
105.		20.96		35.12						24.62		337.1		75.		24.57		34.63		23.21		470.0		0.355																																																																																																									
131.		19.28		34.96						24.94		307.2		100.		21.79		35.03		24.32		365.4		0.460																																																																																																									
171.		14.84		34.44						25.59		245.1		150.		17.60		34.69		25.15		287.0		0.624																																																																																																									
185.		12.20		34.42						26.12		194.8		200.		11.61		34.46		26.26		181.7		0.742																																																																																																									
210.		11.66		34.50						26.28		179.7		250.		10.58		34.61		26.56		153.7		0.827																																																																																																									
225.		10.87		34.56						26.48		161.6		300.		10.20		34.64		26.66		145.9		0.902																																																																																																									
265.		10.62		34.62						26.57		153.7		400.		9.17		34.61		26.81		132.8		1.043																																																																																																									
280.		10.43		34.64						26.62		149.3		500.		8.13		34.58		26.94		120.9		1.171																																																																																																									
314.		10.04		34.63						26.68		144.2		600.		7.15		34.55		27.06		110.5		1.288																																																																																																									
419.		8.98		34.61						26.84		130.5		700.		6.29		34.53		27.17		100.9		1.395																																																																																																									
522.		7.90		34.57						26.97		118.5		800.		5.55		34.53		27.26		92.4		1.493																																																																																																									
625.		6.93		34.54						27.09		108.1		1000.		4.62		34.55		27.39		80.6		1.668																																																																																																									
827.		5.38		34.53						27.28		90.3		1200.		3.95		34.57		27.47		73.0		1.823																																																																																																									
1036.		4.50		34.56						27.40		79.0		1500.		3.13		34.60		27.57		63.1		2.030																																																																																																									
1235.		3.85		34.57						27.48		71.9																																																																																																																					
1542.		3.04		34.60						27.58		62.0																																																																																																																					

TEMPERATURE ERROR TERM AT 100. METERS IS 0.22
TEMPERATURE ERROR TERM AT 200. METERS IS 0.25
TEMPERATURE ERROR TERM AT 250. METERS IS 0.12

ΔFROM BT DATA

Table 1.--Continued

ORIGINAL DATA					DERIVED DATA					INTERPOLATED DATA				
CROMWELL DRY BULB 25.5		1, STATION WET BULB 22.7	7, 11-32N LAT, WIND SPEED 18, DIR. 07	156-58M LCNG, FEB. 18, 1964, 2300 G.C.T.	BAR. 12	WEATHER 02	VIS.	CLOUD TYPE 8, COVER 4						
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.		
0.	25.47	34.25			22.65	520.5	0.	25.47	34.25	22.65	520.5	0.000		
1.	25.44	34.25			22.66	519.7	10.	25.38	34.25	22.68	518.4	0.053		
20.Δ	25.46	34.25			22.66	521.0	20.	25.46	34.25	22.66	521.0	0.105		
40.	25.41	34.25			22.67	520.4	30.	25.44	34.25	22.66	520.9	0.158		
50.Δ	25.40	34.26			22.68	519.7	50.	25.40	34.26	22.68	519.7	0.262		
76.	24.44	34.56			23.20	471.4	75.	24.52	34.55	23.17	474.5	0.388		
106.	19.85	34.81			24.68	331.3	100.	20.82	34.78	24.39	358.2	0.493		
139.	17.56	34.74			25.20	282.2	150.	14.91	34.58	25.68	236.0	0.642		
160.	12.63	34.65			26.06	200.1	200.	11.46	34.72	26.49	159.8	0.742		
186.	11.73	34.62			26.36	171.6	250.	10.82	34.71	26.60	150.1	0.820		
202.	11.43	34.73			26.51	158.5	300.	10.17	34.69	26.70	141.9	0.894		
237.	10.93	34.71			26.58	151.9	400.	9.17	34.65	26.84	130.3	1.031		
266.	10.66	34.71			26.63	147.8	500.	8.26	34.60	26.94	121.4	1.158		
292.	10.40	34.69			26.66	145.2	600.	7.38	34.57	27.05	111.8	1.276		
317.	9.98	34.69			26.73	138.9	700.	6.51	34.56	27.16	102.0	1.384		
413.	9.06	34.64			26.85	129.4	800.	5.74	34.55	27.25	93.2	1.483		
527.	8.02	34.59			26.97	118.9	1000.	4.68	34.56	27.38	81.0	1.659		
623.	7.18	34.57			27.08	109.5	1200.	3.93	34.57	27.47	72.6	1.815		
808.	5.68	34.55			27.26	92.6	1500.	3.06	34.61	27.57	63.3	2.021		
1014.	4.62	34.56			27.39	80.3								
1209.	3.90	34.57			27.48	72.3								
1513.	3.02	34.61			27.58	63.0								

TEMPERATURE ERROR TERM AT 100. METERS IS 0.16

TEMPERATURE ERROR TERM AT 150. METERS IS 0.27

CROMWELL DRY BULB 25.2		1, STATION WET BULB 21.4	8, 11-32N LAT, WIND SPEED 17, DIR. 06	154-0M LCNG, FEB. 19, 1964, 2000 G.C.T.	BAR. 14	WEATHER 02	VIS. 8	CLOUD TYPE , COVER						
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.		
0.	25.00	34.23			22.78	508.3	0.	25.00	34.23	22.78	508.3	0.000		
10.	25.00	34.25			22.80	507.2	10.	25.00	34.25	22.80	507.2	0.052		
30.Δ	25.00	34.25			22.80	508.0	20.	25.00	34.25	22.80	507.4	0.103		
50.Δ	25.00	34.25			22.80	508.8	30.	25.00	34.25	22.80	508.0	0.154		
69.	25.01	34.26			22.80	509.1	50.	25.00	34.25	22.80	508.8	0.256		
75.Δ	25.01	34.26			22.80	509.3	75.	25.01	34.26	22.80	509.3	0.305		
96.	19.73	34.85			24.74	325.0	100.	19.01	34.84	24.91	308.5	0.488		
118.	16.38	34.60			25.37	265.0	150.	12.66	34.31	25.95	210.3	0.618		
145.	13.13	34.31			26.25	219.5	200.	11.35	34.70	26.50	159.2	0.711		
167.	11.54	34.61			26.24	183.1	250.	10.49	34.71	26.66	144.5	0.788		
188.	11.49	34.63			26.42	166.5	300.	9.96	34.70	26.74	137.5	0.859		
209.	11.21	34.73			26.55	154.7	400.	9.01	34.64	26.85	128.6	0.933		
234.	10.67	34.71			26.63	147.3	500.	8.01	34.59	26.97	118.5	1.118		
247.	10.52	34.71			26.65	145.0	600.	7.02	34.55	27.08	108.5	1.233		
279.	10.17	34.71			26.72	139.8	700.	6.17	34.54	27.19	96.7	1.337		
370.	9.30	34.65			26.82	131.7	800.	5.50	34.54	27.27	90.8	1.433		
460.	8.42	34.61			26.92	122.4	1000.	4.52	34.56	27.41	78.6	1.605		
552.	7.48	34.56			27.03	113.5	1200.	3.78	34.58	27.50	69.8	1.755		
731.	5.94	34.54			27.22	95.8								
917.	4.89	34.55			27.35	81.5								
1099.	4.14	34.58			27.46	73.6								
1393.	3.31	34.60			27.56	64.3								

CROMWELL DRY BULB 24.2		1, STATION WET BULB 21.0	9, 13-4N LAT, WIND SPEED 17, DIR. 05	153-53M LCNG, FEB. 20, 1964, 0700 G.C.T.	BAR. 12	WEATHER 02	VIS. 8	CLOUD TYPE 8, COVER 2						
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.		
0.	24.52	34.38			23.04	483.7	0.	24.52	34.38	23.04	483.7	0.000		
11.	24.49	34.39			23.06	482.5	10.	24.49	34.39	23.05	482.6	0.049		
30.Δ	24.49	34.39			23.06	483.3	20.	24.49	34.39	23.06	482.6	0.098		
51.	24.49	34.39			23.06	484.1	30.	24.49	34.39	23.06	483.3	0.146		
76.	24.22	34.37			23.12	478.8	50.	24.22	34.39	23.06	484.1	0.244		
106.	18.51	34.83			25.03	297.0	75.	24.27	34.37	23.10	480.4	0.365		
131.	14.95	34.28			25.45	257.9	100.	19.82	34.77	24.65	333.6	0.468		
160.	11.84	34.29			26.09	197.1	150.	12.70	34.23	25.88	217.2	0.697		
186.	11.29	34.54			26.38	169.5	200.	11.16	34.61	26.46	162.6	0.792		
209.	11.08	34.63			26.49	159.7	250.	10.29	34.64	26.64	146.0	0.780		
235.	10.63	34.64			26.58	151.8	300.	9.41	34.62	26.77	134.5	0.951		
264.	9.98	34.64			26.69	141.4	400.	8.31	34.58	26.92	122.1	0.940		
278.	9.75	34.62			26.72	139.4	500.	7.33	34.54	27.04	111.5	1.098		
311.	9.25	34.62			26.80	131.9	600.	6.43	34.52	27.14	102.2	1.206		
410.	8.22	34.57			26.92	121.4	700.	5.75	34.52	27.23	94.0	1.305		
507.	7.24	34.54			27.04	110.7	800.	5.21	34.54	27.31	87.0	1.397		
604.	6.40	34.52			27.14	101.9	1000.	4.42	34.57	27.42	76.8	1.563		
794.	5.24	34.54			27.30	87.3	1200.	3.77	34.59	27.50	69.3	1.711		
989.	4.46	34.57			27.42	77.3								
1174.	3.85	34.58			27.49	70.7								
1440.	3.18	34.61			27.58	62.3								

TEMPERATURE ERROR TERM AT 100. METERS IS 0.20

Table 1.--Continued

ORIGINAL DATA					DERIVED DATA					INTERPOLATED DATA				
CROMWELL DRY BULB 23.5		1, STATION	10, 14-33N LAT, 153-57W LONG, FEB. 20, 1964, 1700 G.C.T.		WIND SPEED 17, DIR. 05		BAR. 14	WEATHER		VIS.	CLOUD TYPE	COVER		
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	24.42	34.32			23.02	485.1	0.	24.42	34.32	23.02	485.1	0.000		
10.	24.44	34.31			23.51	486.8	10.	24.44	34.31	23.01	486.8	0.049		
30.Δ	24.46	34.34			23.03	486.0	20.	24.45	34.32	23.02	486.7	0.098		
50.Δ	24.46	34.36			23.04	485.3	30.	24.46	34.34	23.03	486.0	0.147		
76.	24.24	34.43			23.16	475.0	50.	24.46	34.36	23.04	485.3	0.245		
105.	22.32	35.05			24.19	378.2	75.	24.26	34.42	23.15	476.2	0.366		
130.	20.28	35.12			24.80	320.6	100.	22.73	34.94	23.99	396.9	0.476		
159.	17.19	34.69			25.25	278.0	150.	18.15	34.84	25.14	288.8	0.649		
185.	15.12	34.44			25.51	251.4	200.	13.05	34.63	25.83	222.7	0.778		
208.	12.07	34.21			25.98	208.4	250.	11.58	34.60	26.38	171.8	0.878		
235.	11.74	34.53			26.29	179.5	300.	9.02	34.39	26.66	144.7	0.957		
264.	11.00	34.56			26.45	164.8	400.	8.31	34.53	26.88	125.4	1.094		
278.	9.48	34.37			26.57	153.4	500.	7.48	34.55	27.01	113.8	1.214		
314.	9.24	34.49			26.70	141.4	600.	6.73	34.54	27.12	104.5	1.325		
418.	8.10	34.52			26.90	123.4	700.	6.04	34.53	27.20	97.2	1.427		
523.	7.33	34.55			27.04	111.6	800.	5.46	34.53	27.27	91.0	1.522		
627.	6.52	34.54			27.14	102.4	1000.	4.58	34.54	27.38	80.7	1.598		
832.	5.30	34.53			27.29	89.3	1200.	3.84	34.57	27.48	71.8	1.650		
1042.	4.42	34.55			27.41	78.8	1500.	3.00	34.60	27.58	61.6	2.053		
1241.	3.70	34.57			27.50	70.1								
1551.	2.89	34.60			27.60	60.2								

TEMPERATURE ERROR TERM AT 200. METERS IS 0.14

TEMPERATURE ERROR TERM AT 250. METERS IS 0.12

TEMPERATURE ERROR TERM AT 300. METERS IS 0.21

CROMWELL DRY BULB 23.9		1, STATION	11, 16- ON LAT, 154- 2W LONG, FEB. 21, 1964, 0200 G.C.T.		WIND SPEED 17, DIR. 05		BAR. 13	WEATHER 02		VIS. 8	CLOUD TYPE 8,	COVER 2		
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	23.75	34.60			23.43	446.0	0.	23.75	34.60	23.43	446.0	0.000		
9.	23.69	34.59			23.44	445.4	10.	23.69	34.59	23.44	445.4	0.045		
30.	23.70	34.59			23.44	446.5	20.	23.69	34.59	23.44	445.9	0.090		
47.	23.57	34.56			23.46	445.7	30.	23.70	34.59	23.44	446.5	0.135		
71.	23.57	34.60			23.49	443.7	50.	23.56	34.57	23.46	445.0	0.225		
75.Δ	23.58	34.59			23.48	444.8	75.	23.58	34.59	23.48	444.8	0.337		
96.	23.32	34.59			23.55	438.4	100.	22.99	34.59	23.65	429.4	0.447		
100.	22.99	34.59			23.65	429.4	150.	18.15	34.81	25.11	291.3	0.629		
123.	20.44	35.10			24.74	325.8	200.	13.44	34.42	25.87	219.1	0.757		
151.	18.06	34.79			25.12	290.7	250.	11.54	34.52	26.33	176.7	0.957		
176.	15.09	34.46			25.55	249.0	300.	10.95	34.68	26.55	156.1	0.944		
276.	11.34	34.68			26.43	182.6	400.	9.62	34.64	26.75	138.6	1.090		
291.	11.10	34.68			26.53	158.3	500.	8.51	34.59	26.89	126.3	1.224		
326.	10.56	34.67			26.62	150.4	600.	7.54	34.55	27.01	116.0	1.346		
432.	9.27	34.62			26.80	134.7	700.	6.64	34.53	27.12	106.1	1.458		
537.	8.13	34.57			26.94	122.3	800.	5.81	34.51	27.21	97.0	1.561		
643.	7.17	34.54			27.05	111.9	1000.	4.76	34.54	27.36	83.7	1.744		
848.	5.45	34.51			27.26	93.0	1200.	4.07	34.56	27.45	74.8	1.904		
1060.	4.56	34.55			27.39	80.7	1500.	3.19	34.60	27.57	63.7	2.115		
1261.	3.88	34.57			27.48	72.5								
1518.	3.15	34.60			27.57	63.2								

TEMPERATURE ERROR TERM AT 200. METERS IS 0.29

SALINITY ERROR TERM AT 200. METERS IS 0.09

TEMPERATURE ERROR TERM AT 250. METERS IS 0.31

SALINITY ERROR TERM AT 250. METERS IS 0.09

CROMWELL DRY BULB 23.0		1, STATION	12, 17-30N LAT, 154- 0W LONG, FEB. 21, 1964, 1300 G.C.T.		WIND SPEED 19, DIR. 04		BAR. 16	WEATHER 00		VIS. 8	CLOUD TYPE	COVER 0		
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
1.	23.78	34.63			23.45	444.7	0.	23.78	34.63	23.45	444.7	0.000		
11.	23.80	34.62			23.43	446.4	10.	23.80	34.62	23.43	446.4	0.045		
30.Δ	23.80	34.72			23.51	439.9	20.	23.80	34.65	23.46	444.5	0.090		
50.Δ	23.80	34.92			23.66	426.3	30.	23.80	34.72	23.51	439.9	0.135		
76.	24.06	35.10			23.72	421.7	50.	23.80	34.92	23.66	426.3	0.222		
100.Δ	23.24	35.22			24.05	390.9	75.	24.06	35.09	23.72	422.0	0.329		
106.	22.92	35.22			24.14	382.3	100.	23.24	35.22	24.05	390.9	0.431		
132.	21.38	35.13			24.51	348.4	150.	20.37	35.08	24.75	326.3	0.612		
161.	19.70	35.04			24.89	312.8	200.	16.82	34.74	25.38	267.2	0.762		
187.	17.69	34.83			25.24	280.3	250.	12.67	34.29	25.93	214.9	0.963		
212.	15.98	34.65			25.50	255.4	300.	10.03	34.16	26.31	178.0	0.982		
237.	13.81	34.40			25.78	228.7	400.	8.10	34.29	26.72	140.1	1.143		
267.	11.39	34.19			26.09	198.9	500.	6.94	34.38	26.96	118.3	1.273		
283.	10.62	34.17			26.22	187.2	600.	6.17	34.43	27.10	105.1	1.366		
317.	9.58	34.17			26.39	170.5	700.	5.58	34.47	27.21	95.7	1.427		
423.	7.84	34.33			26.79	133.6	800.	5.06	34.49	27.29	88.4	1.520		
528.	6.68	34.39			27.00	114.2	1000.	4.29	34.53	27.41	78.0	1.749		
633.	5.98	34.45			27.14	101.7	1200.	3.69	34.56	27.49	70.7	1.900		
838.	4.88	34.50			27.31	86.2	1500.	3.01	34.59	27.58	61.9	2.101		
1049.	4.14	34.54			27.43	76.1								
1250.	3.56	34.56			27.50	69.2								
1564.	2.90	34.60			27.60	60.4								

Δ FROM BT DATA

Table 1.--Continued

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA				
CROMWELL 1, STATION 13, 19- 6N LAT, 153-57W LONG, FEB. 21, 1964, 2300 G.C.T.												
DRY BULB 23.2		WET BULB 20.6		WIND SPEED 11, DIR. 08	BAR. 19	WEATHER 02		VIS. 8		CLOUD TYPE 9, COVER 3		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
1.	23.76	34.62			23.45	444.9	0.	23.76	34.62	23.45	444.9	0.000
10.	23.76	34.62			23.45	445.2	10.	23.76	34.62	23.45	445.2	0.045
20.	23.73	34.63			23.46	444.1	20.	23.73	34.63	23.46	444.1	0.090
30. Δ	23.70	34.65			23.49	442.2	30.	23.70	34.65	23.49	442.2	0.135
50. Δ	23.70	34.65			23.49	442.9	50.	23.70	34.65	23.49	442.9	0.224
75. Δ	23.71	34.66			23.49	443.4	75.	23.71	34.66	23.49	443.4	0.336
86. Δ	23.77	34.63			23.45	447.7	100.	23.78	34.66	23.47	446.4	0.448
100. Δ	23.78	34.66			23.47	446.4	150.	19.06	34.96	24.99	302.3	0.636
115.	21.06	34.60			24.19	377.7	200.	14.24	34.38	25.68	237.7	0.772
140.	19.72	34.99			24.85	316.2	250.	11.92	34.20	26.00	207.3	0.885
171.	17.32	34.73			25.25	278.5	300.	10.19	34.15	26.27	182.0	0.943
196.	14.92	34.41			25.64	241.3	400.	7.15	34.09	26.70	141.3	1.146
221.	13.14	34.29			25.83	223.1	500.	5.87	34.19	26.95	117.8	1.277
246.	12.16	34.21			25.96	211.0	600.	5.35	34.35	27.14	100.8	1.387
275.	10.63	34.16			26.21	187.9	700.	4.89	34.44	27.26	99.5	1.433
291.	10.44	34.15			26.23	185.8	800.	4.55	34.49	27.34	82.6	1.570
326.	9.32	34.14			26.41	168.7	1000.	3.92	34.53	27.44	74.0	1.779
431.	6.46	34.08			26.79	132.8	1200.	3.41	34.56	27.52	67.0	1.871
534.	5.76	34.26			27.02	111.6	1500.	2.76	34.59	27.61	58.8	2.063
640.	5.13	34.39			27.20	95.3						
844.	4.43	34.50			27.36	80.7						
1052.	3.76	34.53			27.46	72.2						
1250.	3.31	34.57			27.53	65.4						
1558.	2.66	34.60			27.62	57.5						

CROMWELL 1, STATION 14, 20-30N LAT, 154- 7W LONG, FEB. 22, 1964, 0900 G.C.T.														
DRY BULB 22.5		WET BULB 20.8		WIND SPEED 21, DIR. 06		BAR. 20		WEATHER 21		VIS. 8		CLOUD TYPE 8, COVER 5		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	23.69	34.61			23.46	443.6	0.	23.69	34.61	23.46	443.6	0.000		
10.	23.67	34.61			23.46	443.4	10.	23.67	34.61	23.46	443.4	0.045		
30. Δ	23.70	34.63			23.47	443.6	20.	23.68	34.62	23.47	443.5	0.090		
50. Δ	23.70	34.64			23.48	443.6	30.	23.70	34.63	23.47	443.6	0.135		
68.	23.65	34.65			23.50	442.2	50.	23.70	34.64	23.48	443.6	0.224		
75. Δ	23.58	34.66			23.53	439.8	75.	23.58	34.66	23.53	439.8	0.335		
95.	22.64	34.75			23.87	408.1	100.	21.85	34.73	24.07	388.6	0.440		
117.	19.12	34.66			24.75	324.5	150.	17.08	34.74	25.32	271.4	0.606		
142.	18.06	34.86			25.17	285.3	200.	13.25	34.30	25.82	223.9	0.731		
165.	15.23	34.48			25.54	250.2	250.	10.55	34.15	26.21	186.7	0.834		
185.	14.10	34.37			25.70	235.4	300.	9.47	34.17	26.41	168.4	0.924		
208.	12.79	34.27			25.89	217.5	400.	6.97	34.08	26.72	139.5	1.079		
232.	11.30	34.18			26.10	197.2	500.	5.63	34.17	26.97	116.2	1.208		
244.	10.72	34.15			26.18	189.6	600.	5.11	34.31	27.14	100.4	1.318		
273.	10.09	34.17			26.31	178.0	700.	4.80	34.42	27.26	89.9	1.414		
354.	8.19	34.14			26.59	151.7	800.	4.55	34.49	27.34	82.7	1.501		
433.	6.22	34.05			26.80	131.9	1000.	3.99	34.55	27.45	73.1	1.659		
504.	5.61	34.18			26.98	115.3								
645.	4.96	34.36			27.19	95.4								
782.	4.60	34.48			27.33	83.6								
916.	4.22	34.51			27.40	78.0								
1158.	3.53	34.56			27.51	68.1								
TEMPERATURE ERROR TERM AT 100. METERS IS 0.15														
TEMPERATURE ERROR TERM AT 150. METERS IS 0.13														

CROMWELL 1, STATION 15, 22- 3N LAT, 153-58W LONG, FEB. 22, 1964, 1800 G.C.T.														
DRY BULB 22.5		WET BULB 19.4		WIND SPEED 20, DIR. 08		BAR. 21		WEATHER 02		VIS. 7		CLOUD TYPE 8, COVER 3		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
1.	23.60	34.74			23.58	431.8	0.	23.60	34.74	23.58	431.7	0.000		
11.	23.60	34.74			23.58	432.1	10.	23.60	34.74	23.58	432.0	0.044		
21.	23.64	34.74			23.57	433.6	20.	23.64	34.74	23.57	433.5	0.088		
36.	23.67	35.20			23.97	397.9	30.	23.65	34.81	23.62	429.1	0.131		
100. Δ	23.22	35.17			24.02	394.0	50.	23.63	34.98	23.76	417.1	0.216		
105.	22.88	35.14			24.09	387.0	75.	23.48	35.19	23.96	398.7	0.319		
140.	21.49	35.15			24.49	350.1	100.	23.22	35.17	24.02	394.0	0.419		
170.	19.94	35.07			24.85	317.0	150.	21.03	35.14	24.61	339.5	0.604		
185.	18.90	34.98			25.05	298.3	200.	18.61	34.96	25.11	293.3	0.763		
220.	18.04	34.89			25.20	285.3	250.	15.66	34.60	25.53	253.5	0.901		
235.	16.59	34.71			25.41	265.3	300.	13.09	34.33	25.87	221.4	1.021		
273.	14.63	34.48			25.67	240.7	400.	9.16	34.06	26.38	173.2	1.220		
290.	13.81	34.40			25.78	230.2	500.	6.86	34.06	26.72	140.9	1.378		
315.	11.97	34.22			26.01	208.4	600.	5.84	34.19	26.95	118.8	1.510		
419.	8.90	34.08			26.43	168.2	700.	5.24	34.32	27.13	102.9	1.622		
526.	6.36	34.07			26.79	133.5	800.	4.55	34.39	27.26	90.1	1.719		
633.	5.75	34.25			27.01	113.5	1000.	3.93	34.50	27.42	75.8	1.887		
832.	4.34	34.40			27.30	86.8	1200.	3.38	34.57	27.53	66.2	2.031		
1034.	3.88	34.52			27.44	74.3	1500.	2.71	34.58	27.60	59.2	2.222		
1226.	3.30	34.57			27.54	65.2								
1507.	2.70	34.58			27.60	59.1								
SALINITY ERROR TERM AT 50. METERS IS 0.06														
TEMPERATURE ERROR TERM AT 200. METERS IS 0.23														
TEMPERATURE ERROR TERM AT 400. METERS IS 0.17														

 Δ FROM BT DATA

Table 1.--Continued

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA				
CROMWELL DRY BULB 22.4		1, STATION WET BULB	16, 23-30N LAT, 154- 19.4 WIND SPEED 15, DIR. 04	4W LONG, FEB. 23, 1964, 0200 G.C.T.	BAR. 21	WEATHER 18		VIS. 8	CLOUD TYPE 6, COVER 7			
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	23.20	35.07			23.95	396.8	0.	23.20	35.07	23.95	396.8	0.000
10.	23.18	35.13			24.00	392.3	10.	23.18	35.13	24.00	392.3	0.040
75.	23.04	35.20			24.09	385.9	70.	23.15	35.16	24.03	389.6	0.080
105.	23.04	35.19			24.09	387.8	30.	23.13	35.19	24.06	387.5	0.119
130.	20.96	35.10			24.60	339.5	50.	23.08	35.21	24.09	385.2	0.197
161.	18.93	34.98			25.04	298.2	75.	23.04	35.20	24.09	385.9	0.294
186.	17.28	34.76			25.28	275.8	100.	23.13	35.20	24.06	389.7	0.391
211.	16.15	34.64			25.46	259.9	150.	19.62	35.03	24.91	310.9	0.568
236.	14.70	34.50			25.67	239.6	200.	16.63	34.49	25.38	266.8	0.714
266.	13.40	34.38			25.85	222.8	250.	14.28	34.45	25.72	235.1	0.840
271.	12.85	34.35			25.94	214.4	300.	11.65	34.26	26.10	199.5	0.950
317.	11.59	34.23			26.09	200.6	400.	9.57	34.12	26.35	176.0	1.139
422.	9.06	34.10			26.42	169.3	500.	7.11	34.05	26.68	144.8	1.301
527.	6.52	34.05			26.76	137.2	600.	5.66	34.12	26.93	121.2	1.435
633.	5.41	34.17			26.99	115.0	700.	4.99	34.24	27.09	105.4	1.550
839.	4.42	34.36			27.25	90.8	800.	4.54	34.33	27.22	94.2	1.651
1049.	3.74	34.50			27.44	74.2	1000.	3.87	34.47	27.40	77.2	1.824
1251.	3.36	34.53			27.50	69.0	1200.	3.44	34.53	27.49	69.9	1.973
1561.	2.72	34.59			27.61	59.0	1500.	2.82	34.59	27.59	60.0	2.171
TEMPERATURE ERROR TERM AT 250. METERS IS				0.16								
TEMPERATURE ERROR TERM AT 300. METERS IS				0.26								

CROMWELL DRY BULB 21.5		1, STATION WET BULB 17.9	17, 23-30N LAT, 150-59W LONG, FEB. 23, 1964, 1900 G.C.T.	BAR. 24	WEATHER 15	VIS. 8	CLOUD TYPE 8, COVER 4					
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OBSERVED DATA REJECTED DUE TO EQUIPMENT FAILURE

CROMWELL DRY BULB 22.2		1, STATION WET BULB 19.6	18, 22- ON LAT, 151- OW LONG, FEB. 24, 1964, 0400 G.C.T.	WIND SPEED 06, DIR. 05	BAR. 21	WEATHER 15	VIS. 8	CLOUD TYPE 8, COVER 5					
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	23.07	34.70			23.71	419.9	0.	23.07	34.70	23.71	419.9	0.000	
10.	23.08	34.70			23.70	420.6	10.	23.08	34.70	23.70	420.6	0.043	
51.	23.12	34.78			23.75	417.5	20.	23.10	34.69	23.69	422.0	0.095	
76.	23.04	35.04			23.97	397.5	30.	23.11	34.70	23.70	422.0	0.129	
106.	22.14	35.13			24.30	367.6	50.	23.12	34.77	23.75	417.8	0.12	
131.	20.88	35.12			24.64	336.0	75.	23.05	35.03	23.96	398.4	0.315	
161.	19.57	35.05			24.93	308.9	100.	22.38	35.13	24.23	374.2	0.412	
186.	18.54	34.92			25.10	293.9	150.	20.03	35.08	24.84	317.6	0.587	
211.	17.28	34.77			25.29	275.9	200.	17.84	34.84	25.20	283.8	0.738	
237.	16.04	34.61			25.46	260.4	250.	14.87	34.46	25.61	246.2	0.872	
265.	13.48	34.31			25.78	229.5	300.	11.61	34.18	26.05	204.3	0.966	
280.	12.53	34.25			25.92	215.8	400.	8.37	34.06	26.51	160.7	1.170	
315.	11.06	34.14			26.12	197.8	500.	6.35	34.10	26.82	130.8	1.317	
418.	7.93	34.07			26.58	154.1	600.	5.44	34.23	27.03	110.7	1.439	
523.	6.04	34.12			26.87	125.5	700.	4.99	34.36	27.19	96.6	1.544	
627.	5.32	34.27			27.08	106.4	800.	4.65	34.45	27.30	86.6	1.636	
827.	4.58	34.47			27.32	84.5	1000.	4.06	34.52	27.42	76.3	1.801	
1028.	3.98	34.52			27.43	75.4	1200.	3.53	34.56	27.50	68.7	1.948	
1220.	3.48	34.56			27.51	68.0	1500.	2.88	34.59	27.59	60.6	2.144	
1522.	2.84	34.59			27.59	60.2							

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL DRY BULB 22.3		1, STATION WET BULB 18.5		19, 20-30N LAT, 151- WIND SPEED 15, DIR. 09		0W LONG, FEB. 24, 1964, BAR. 20		1400 G.C.T. WEATHER 02		VIS. 8		CLOUD TYPE 8, COVER 1	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	23.06	34.73			23.73	417.5	0.	23.06	34.73	23.73	417.5	0.000	
10.	23.08	34.72			23.72	419.1	10.	23.08	34.72	23.72	419.1	0.042	
73.	23.08	34.74			23.73	420.1	20.	23.09	34.71	23.71	420.3	0.084	
101.	23.08	34.81			23.79	416.1	30.	23.09	34.71	23.71	421.1	0.127	
125.	22.26	35.09			24.23	374.5	50.	23.09	34.71	23.71	421.5	0.212	
153.	21.22	35.15			24.57	343.5	75.	23.10	34.74	23.73	420.7	0.318	
178.	19.64	35.04			24.91	311.9	100.	23.09	34.80	23.78	416.7	0.423	
201.	18.50	34.90			25.09	294.9	150.	21.35	35.16	24.54	346.5	0.615	
225.	16.58	34.65			25.36	269.1	200.	18.55	34.91	25.08	295.6	0.777	
254.	14.12	34.37			25.69	237.7	250.	14.46	34.40	25.65	242.0	0.913	
268.	12.98	34.27			25.85	222.7	300.	11.20	34.18	26.12	197.0	1.024	
301.	11.16	34.18			26.13	196.3	400.	8.37	34.13	26.56	155.9	1.202	
400.	8.37	34.13			26.56	155.9	500.	6.51	34.17	26.85	127.7	1.345	
497.	6.56	34.17			26.85	128.4	600.	5.77	34.29	27.04	110.2	1.465	
536.*	6.06*	34.20			26.93	120.0	700.	5.33	34.39	27.18	98.3	1.570	
598.	5.78	34.29			27.04	110.5	800.	4.94	34.45	27.27	89.8	1.665	
792.	4.96	34.45			27.27	90.4	1000.	4.35	34.51	27.38	80.4	1.838	
994.	4.37	34.51			27.38	80.6							
1000.**	4.35**	34.51**			27.38	80.4							

CROMWELL 1, STATION 20, 18-57N LAT, 151- 0W LONG, FEB. 24, 1964, 2300 G.C.T.												
DRY BULB 23.2	WET BULB 19.7			WIND SPEED 22, DIR. 07	BAR. 21	WEATHER 02	VIS. 9	CLOUD TYPE 8, COVER 1				
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	23.38	34.73			23.64	426.3	0.	23.38	34.73	23.64	426.3	0.000
10.	23.37	34.73			23.64	426.4	10.	23.37	34.73	23.64	426.4	0.043
20.	23.35	34.74			23.66	425.5	20.	23.35	34.74	23.66	425.5	0.086
50.Δ	23.10	34.86			23.82	411.1	30.	23.27	34.78	23.71	420.8	0.129
75.Δ	23.10	34.87			23.83	411.3	50.	23.10	34.86	23.82	411.1	0.213
113.	21.43	35.16			24.52	346.8	75.	23.10	34.87	23.83	411.3	0.316
138.	20.20	35.13			24.83	318.1	100.	22.13	35.06	24.25	371.8	0.415
167.	19.44	35.09			25.00	302.9	150.	19.87	35.12	24.91	310.8	0.487
192.	18.44	34.96			25.15	280.8	200.	17.65	34.85	25.26	278.7	0.736
216.	15.90	34.60			25.48	257.4	250.	13.25	34.30	25.82	225.7	0.863
242.	13.66	34.34			25.77	230.3	300.	10.54	34.16	26.22	186.8	0.967
271.	12.22	34.22			25.96	212.0	400.	7.57	34.09	26.64	147.1	1.135
286.	11.10	34.17			26.13	195.6	500.	6.38	34.22	26.91	122.0	1.271
320.	10.04	34.17			26.32	176.2	600.	6.08	34.39	27.08	107.2	1.387
412.	7.26	34.08			26.68	143.5	700.	5.61	34.46	27.20	97.0	1.490
524.	6.32	34.28			26.96	117.4	800.	5.02	34.48	27.28	88.9	1.584
627.	6.02	34.42			27.11	104.4	1000.	4.21	34.51	27.40	78.4	1.753
825.	4.86	34.48			27.30	87.3	1200.	3.58	34.55	27.49	70.0	1.903
1031.	4.12	34.52			27.41	77.1	1500.	2.96	34.59	27.58	61.7	2.104
1227.	3.50	34.55			27.50	69.0						
1534.	2.91	34.59			27.59	61.1						

CROMWELL 1, STATION 21, 17-29N LAT, 151- 1W LONG, FEB. 25, 1964, 0900 G.C.T.													
DRY BULB 23.1		WET BULB 19.6		WIND SPEED 15, DIR. 06		BAR. 20		WEATHER 02		VIS. 8		CLOUD TYPE 8, COVER 2	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	23.22	34.48			23.50	439.9	0.	23.22	34.48	23.50	439.9	0.000	
9.	23.19	34.48			23.51	439.5	10.	23.19	34.48	23.51	439.5	0.045	
44.	23.16	34.56			23.57	434.2	20.	23.19	34.48	23.51	439.6	0.089	
50.Δ	23.12	34.60			23.62	430.4	30.	23.18	34.50	23.53	438.3	0.133	
66.	23.36	34.80			23.70	423.2	50.	23.12	34.60	23.62	430.4	0.221	
75.Δ	23.40	34.82			23.70	423.3	75.	23.40	34.82	23.70	423.3	0.328	
93.	22.86	34.86			23.89	406.1	100.	22.53	34.92	24.03	393.2	0.431	
115.	21.66	35.02			24.35	363.1	150.	19.30	34.86	24.86	315.3	0.610	
141.	19.84	34.90			24.75	325.8	200.	14.88	34.42	25.57	248.3	0.752	
163.	18.44	34.79			25.02	300.2	250.	11.42	34.23	26.12	196.0	0.864	
184.	16.55	34.59			25.32	271.6	300.	9.51	34.24	26.46	164.0	0.954	
205.	14.37	34.37			25.64	241.4	400.	7.16	34.20	26.79	133.1	1.104	
230.	12.42	34.23			25.93	214.0	500.	6.63	34.35	26.98	115.7	1.230	
242.	11.74	34.22			26.05	202.4	600.	6.04	34.42	27.11	104.7	1.341	
272.	10.72	34.28			26.28	180.6	700.	5.65	34.45	27.19	98.0	1.444	
356.	7.48	34.13			26.69	142.1	800.	5.13	34.49	27.28	89.3	1.538	
440.	7.16	34.29			26.86	127.0	1000.	4.25	34.51	27.39	79.1	1.709	
520.	6.44	34.37			27.02	112.3	1200.	3.63	34.55	27.49	70.1	1.860	
723.	5.58	34.46			27.20	96.8							
842.	4.89	34.51			27.32	85.6							
1002.	4.24	34.51			27.39	79.1							
1256.	3.52	34.56			27.51	68.8							

TEMPERATURE ERROR TERM AT 300. METERS IS 0.13
 TEMPERATURE ERROR TERM AT 400. METERS IS 0.14

Δ FROM BT DATA
 * INTERPOLATED VALUE
 ** EXTRAPOLATED VALUE

Table 1.--Continued

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA				
CROMWELL DRY BULB 23.2		1, STATION WET BULB	22, 15-55N LAT, 151- 20.8	9W LONG, FEB. 25, 1964, WIND SPEED 25, DIR. 05	1800 G.C.T. BAR. 17		WEATHER 02	VIS. 6	CLOUD TYPE 8, COVER 3			
DEPTH	TEMP.	SAL.	CXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	23.54	34.42			23.36	453.1	0.	23.54	34.42	23.36	453.1	0.000
10.	23.50	34.40			23.36	453.8	10.	23.50	34.40	23.36	453.8	0.046
30. Δ	23.49	34.42			23.37	452.9	20.	23.49	34.41	23.36	453.5	0.092
50. Δ	23.49	34.42			23.37	453.6	30.	23.49	34.42	23.37	452.9	0.138
74.	23.50	34.41			23.36	455.6	50.	23.49	34.42	23.37	453.6	0.229
103.	21.66	34.58			24.01	394.4	75.	23.47	34.42	23.38	454.4	0.343
127.	18.51	34.60			24.86	314.4	100.	21.95	34.56	23.92	403.3	0.451
157.	15.36	34.41			25.46	257.8	150.	16.09	34.47	25.34	269.2	0.621
181.	12.34	34.23			25.95	211.3	200.	11.34	34.15	26.07	199.4	0.739
206.	11.16	34.14			26.10	197.1	250.	10.13	34.29	26.40	169.0	0.832
230.	10.28	34.20			26.30	178.1	300.	9.34	34.44	26.64	146.7	0.911
259.	10.10	34.34			26.44	165.4	400.	7.66	34.42	26.89	124.1	1.048
274.	9.95	34.43			26.54	156.6	500.	6.87	34.47	27.04	110.4	1.166
308.	9.12	34.42			26.67	144.5	600.	5.99	34.47	27.15	100.3	1.273
411.	7.54	34.42			26.91	122.4	700.	5.30	34.47	27.24	91.9	1.370
515.	6.78	34.48			27.06	108.8	800.	4.82	34.50	27.32	84.8	1.459
619.	5.82	34.46			27.17	98.7	1000.	4.05	34.54	27.43	74.8	1.621
820.	4.74	34.51			27.44	83.5	1200.	3.48	34.58	27.52	66.7	1.764
1029.	3.96	34.54			27.45	73.7	1500.	2.77	34.61	27.61	57.9	1.953
1217.	3.44	34.58			27.53	66.0						
1536.	2.70	34.61			27.62	57.1						

CROMWELL DRY BULB 24.3		1, STATION WET BULB 22.2	23, 14-29N LAT, 25, DIR. 06	151- 1W LONG, FEB. 26, 1964, 0300 G.C.T.	BAR. 14	WEATHER 03	VIS. 6	CLOUD TYPE 0, COVER 8					
DEPTH	TEMP.	SAL.	XY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	24.50	34.33			23.01	486.7	0.	24.50	34.33	23.01	486.7	0.000	
10.	24.53	34.35			23.01	486.5	10.	24.53	34.35	23.01	486.5	0.050	
30.Δ	24.52	34.34			23.01	487.7	20.	24.53	34.35	23.01	487.0	0.099	
50.Δ	24.52	34.34			23.01	488.5	30.	24.52	34.34	23.01	487.7	0.148	
74.	24.52	34.34			23.01	489.4	50.	24.52	34.34	23.01	489.5	0.246	
100.Δ	21.60	34.51			23.98	397.8	75.	24.52	34.34	23.01	489.4	0.369	
103.	20.44	34.52			24.30	367.1	100.	21.60	34.51	23.98	397.8	0.481	
129.	17.54	34.47			25.00	301.1	150.	14.60	34.35	25.57	246.3	0.643	
158.	13.59	34.31			25.76	228.8	200.	11.66	34.46	26.26	182.2	0.751	
184.	12.10	34.39			26.12	195.2	250.	11.10	34.68	26.53	157.2	0.837	
207.	11.55	34.50			26.30	177.6	300.	10.25	34.67	26.67	144.7	0.913	
232.	11.28	34.64			26.46	163.1	400.	8.77	34.61	26.87	126.9	1.050	
262.	10.95	34.69			26.56	154.3	500.	7.68	34.55	26.99	116.3	1.173	
276.	10.68	34.68			26.60	150.6	600.	6.85	34.51	27.08	108.5	1.286	
312.	10.04	34.66			26.70	142.0	700.	6.14	34.51	27.17	100.3	1.392	
414.	8.60	34.60			26.89	125.1	800.	5.53	34.52	27.26	92.4	1.489	
518.	7.51	34.54			27.01	114.8	1000.	4.68	34.56	27.38	81.1	1.665	
623.	6.68	34.51			27.10	106.8	1200.	3.97	34.57	27.47	73.2	1.821	
825.	5.40	34.53			27.28	90.5							
1013.	4.64*	34.56			27.39	80.5							
1035.	4.56	34.56			27.40	79.7							
1223.	3.89	34.57			27.48	72.3							

TEMPERATURE ERROR TERM AT 150. METERS IS 0.11

CROMWELL DRY BULB 24.0		1, STATION WET BULB 22.0	24, 13- ON LAT, 25, DIR. 06	151- 0W LONG, FEB. 26, 1964, 1300 G.C.T.	BAR. 14	WEATHER 00	VIS. 6	CLOUD TYPE , COVER					
DEPTH	TEMP.	SAL.	XY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	24.47	34.18			22.90	496.7	0.	24.47	34.18	22.90	496.7	0.000	
9.	24.45	34.18			22.91	496.4	10.	24.45	34.18	22.91	496.5	0.051	
30.Δ	24.46	34.18			22.91	497.5	20.	24.45	34.18	22.91	496.9	0.101	
50.Δ	24.46	34.18			22.91	498.3	30.	24.46	34.18	22.91	497.5	0.151	
77.	24.47	34.17			22.90	500.3	50.	24.46	34.18	22.91	498.3	0.21	
104.	20.04	34.55			24.43	354.8	75.	24.55	34.16	22.87	502.8	0.377	
127.	17.98	34.62			25.01	300.4	100.	20.77	34.49	24.19	377.4	0.488	
154.	13.84	34.36			25.75	230.0	150.	14.44	34.40	25.65	238.9	0.643	
177.	12.16	34.32			26.05	201.2	200.	11.45	34.55	26.36	172.1	0.747	
198.	11.46	34.53			26.34	173.6	250.	10.81	34.68	26.58	152.0	0.828	
221.	11.38	34.68			26.48	161.7	300.	10.14	34.66	26.69	143.1	0.903	
247.	10.82	34.68			26.58	152.4	400.	8.90	34.61	26.85	129.1	1.040	
260.	10.77	34.69			26.59	151.1	500.	7.79	34.55	26.97	117.8	1.165	
290.	10.28	34.67			26.67	144.8	600.	6.92	34.53	27.08	108.1	1.279	
381.	9.14	34.62			26.82	131.5	700.	6.16	34.52	27.18	99.7	1.384	
472.	8.06	34.56			26.94	120.8	800.	5.51	34.52	27.25	92.7	1.481	
560.	7.26	34.54			27.04	111.9	1000.	4.54	34.54	27.39	80.5	1.657	
738.	5.90	34.52			27.21	96.9	1200.	3.84	34.57	27.48	71.7	1.811	
920.	4.87	34.52			27.33	85.5							
1093.	4.22	34.57			27.44	75.3							
1314.	3.56	34.58			27.52	68.2							

TEMPERATURE ERROR TERM AT 100. METERS IS 0.14

Δ FROM BT DATA
*INTERPOLATED VALUE

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA			
CROMWELL 1, STATION 25, 11-35N LAT, 150-59W LONG, FEB. 26, 1964, 2200 G.C.T.											
DRY BULB 25.5		WET BULB 23.0		WIND SPEED 22, DIR. 06		BAR. 15		WEATHER 02		VIS. 7	
										CLOUD TYPE 6, COVER 8	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA
1.	25.33	34.25			22.70	516.5	0.	25.33	34.25	22.70	516.4
10.	25.39	34.25			22.68	518.6	10.	25.39	34.25	22.68	518.6
30.Δ	25.39	34.25			22.68	519.4	20.	25.40	34.25	22.67	519.3
49.	25.38	34.25			22.68	519.8	30.	25.39	34.25	22.68	519.4
74.	18.11	34.50			24.88	310.4	50.	25.14	34.26	22.76	512.2
103.	13.18	34.53			26.01	203.2	75.	17.88	34.50	24.94	304.9
127.	11.84	34.71			26.41	165.5	100.	13.52	34.53	25.94	209.9
156.	11.26	34.75			26.55	152.9	150.	11.32	34.75	26.54	153.7
182.	11.00	34.75			26.60	148.9	200.	10.78	34.74	26.63	146.0
205.	10.72	34.74			26.64	145.3	250.	10.32	34.73	26.71	140.0
230.	10.54	34.73			26.67	143.5	300.	9.91	34.71	26.76	135.5
258.	10.22	34.73			26.72	138.7	400.	9.09	34.67	26.86	127.6
273.	10.06	34.71			26.73	137.8	500.	8.11	34.63	26.98	117.2
308.	9.88	34.72			26.77	134.8	600.	7.17	34.57	27.08	109.1
410.	8.99	34.66			26.87	126.8	700.	6.34	34.54	27.17	100.3
513.	7.98	34.62			27.00	115.9	800.	5.63	34.54	27.26	92.6
615.	7.04	34.56			27.09	108.1	1000.	4.65	34.56	27.39	80.8
817.	5.52	34.54			27.27	91.3	1200.	3.96	34.58	27.48	72.4
1025.	4.56	34.56			27.40	79.6	1500.	3.14	34.61	27.58	62.5
1223.	3.89	34.58			27.49	71.6					1.643
1532.	3.08	34.61			27.59	61.7					1.648

CROMWELL 1, STATION 26, 10-1N LAT, 148-1W LONG, FEB. 27, 1964, 1900 G.C.T.											
DRY BULB 26.5		WET BULB 23.5		WIND SPEED 15, DIR. 08		BAR. 15		WEATHER 01		VIS. 6	
										CLOUD TYPE 8, COVER 7	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA
0.Δ	25.62	34.26			22.61	524.2	0.	25.62	34.26	22.61	524.2
10.	25.62	34.26			22.61	524.6	10.	25.62	34.26	22.61	524.6
19.	25.61	34.25			22.61	525.4	20.	25.61	34.25	22.61	525.4
30.Δ	25.60	34.25			22.61	525.5	30.	25.60	34.25	22.61	525.5
50.Δ	25.58	34.26			22.63	525.0	50.	25.58	34.26	22.63	525.0
5.97.	21.12	34.76			24.07	387.3	75.	16.00	34.44	25.34	267.0
75.Δ	16.00	34.46			25.34	267.0	100.	12.36	34.57	26.20	185.0
80.	14.63	34.40			25.61	241.0	150.	11.32	34.75	26.55	153.3
109.	12.22	34.69			26.33	173.5	200.	10.66	34.74	26.66	143.9
132.	11.65	34.75			26.48	159.2	250.	10.14	34.72	26.73	137.5
161.	11.15	34.75			26.57	151.0	300.	9.77	34.70	26.78	134.2
185.	10.86	34.75			26.63	146.5	400.	8.94	34.65	26.88	126.2
208.	10.56	34.73			26.67	142.6	500.	7.90	34.60	27.00	115.7
232.	10.30	34.73			26.71	139.5	600.	7.02	34.56	27.09	107.4
261.	10.05	34.72			26.74	136.6	700.	6.31	34.55	27.18	99.9
275.	9.94	34.71			26.76	135.8	800.	5.72	34.55	27.25	93.1
308.	9.72	34.70			26.78	133.6	1000.	4.80	34.56	27.37	82.4
407.	8.87	34.65			26.88	125.5					
508.	7.82	34.60			27.01	114.9					
608.	6.96	34.56			27.10	106.8					
804.	5.70	34.55			27.26	92.8					
1004.	4.78	34.56			27.37	82.3					
1195.	4.02	34.57			27.46	73.7					

TEMPERATURE ERROR TERM AT 100. METERS IS 0.27

CROMWELL 1, STATION 27, 11-30N LAT, 148-2W LONG, FEB. 28, 1964, 0700 G.C.T.											
DRY BULB 25.0		WET BULB 22.4		WIND SPEED 30, DIR. 08		BAR. 15		WEATHER 15		VIS. 7	
										CLOUD TYPE 6, COVER 8	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA
0.	24.96	34.33			22.87	499.9	0.	24.96	34.33	22.87	499.9
9.	24.94	34.34			22.88	499.0	10.	24.94	34.34	22.88	498.9
30.	24.92	34.35			22.90	498.5	20.	24.93	34.35	22.89	498.6
50.Δ	24.88	34.35			22.91	498.1	30.	24.92	34.35	22.90	498.5
64.	19.96	34.67			24.54	342.7	50.	24.88	34.35	22.91	498.1
75.Δ	18.18	34.60			24.94	304.8	75.	18.18	34.60	24.94	304.8
89.	15.15	34.44			25.5.	249.2	100.	13.40	34.44	25.90	214.0
110.	12.33	34.50			26.16	189.5	150.	11.57	34.77	26.51	156.9
134.	11.94	34.75			26.43	164.6	200.	10.94	34.75	26.61	148.3
156.	11.44	34.76			26.53	155.3	250.	10.43	34.74	26.69	141.6
177.	11.20	34.75			26.56	152.3	300.	9.96	34.72	26.76	136.1
198.	10.96	34.75			26.61	148.6	400.	9.23	34.68	26.85	129.0
223.	10.71	34.74			26.64	145.5	500.	8.37	34.63	26.95	121.1
236.	10.58	34.74			26.67	143.6	600.	7.40	34.58	27.05	111.6
266.	10.26	34.73			26.72	139.5	700.	6.53	34.55	27.15	102.6
354.	9.56	34.70			26.81	131.9	800.	5.84	34.55	27.24	94.6
442.	8.92	34.66			26.88	126.3	1000.	4.83	34.57	27.37	82.4
531.	8.06	34.61			26.98	118.2	1200.	4.07	34.58	27.47	73.7
708.	6.46	34.55			27.16	102.0					
894.	5.32	34.56			27.31	88.1					
1075.	4.53	34.57			27.41	79.0					
1373.	3.64	34.59			27.52	68.9					

Δ FROM BT DATA

Table 1.--Continued

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA				
CROMWELL DRY BULB 24.0		1, STATION WET BULB 21.5	28, 13-- ON LAT, 148--7W LONG, FEB. 28, 1964, 1900 G.C.T.	28, 13-- WIND SPEED 25, DIR. 02	BAR. 18	WEATHER 02	VIS. 7	CLOUD TYPE 4, COVER 5				
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
1.	24.15	34.29			23.08	479.7	0.	24.15	34.29	23.08	479.6	0.000
10.	24.14	34.29			23.08	479.7	10.	24.14	34.29	23.08	479.7	0.049
30. Δ	24.12	34.30			23.10	479.2	20.	24.13	34.29	23.09	479.5	0.097
50.	24.12	34.32			23.11	478.5	30.	24.12	34.30	23.10	479.2	0.145
76.	23.22	34.48			23.50	442.8	50.	24.12	34.32	23.11	478.5	0.242
106.	16.74	34.50			25.21	279.9	75.	23.30	34.47	23.47	445.6	0.358
131.	14.38	34.40			25.66	237.4	100.	18.11	34.51	24.89	310.6	0.454
161.	11.62	34.32			26.15	191.0	150.	12.46	34.33	26.00	205.6	0.584
186.	11.54	34.51			26.31	176.2	200.	11.35	34.60	26.42	166.7	0.677
211.	11.20	34.65			26.49	160.4	250.	10.94	34.70	26.57	152.8	0.758
236.	11.13	34.70			26.54	156.1	300.	10.54	34.71	26.65	146.9	0.834
266.	10.73	34.70			26.61	149.8	400.	9.23	34.65	26.83	130.9	0.974
281.	10.67	34.70			26.62	149.1	500.	7.99	34.57	26.96	119.7	1.100
317.	10.39	34.71			26.68	144.3	600.	6.96	34.53	27.08	108.8	1.216
421.	8.90	34.63			26.86	127.8	700.	6.11	34.52	27.18	99.1	1.321
526.	7.72	34.55			26.98	117.4	800.	5.44	34.52	27.26	91.6	1.417
632.	6.66	34.53			27.12	105.1	1000.	4.46	34.54	27.39	79.5	1.590
837.	5.23	34.72			27.29	89.2	1200.	3.74	34.58	27.50	69.7	1.741
1047.	4.28	34.55			27.42	77.1	1500.	3.01	34.61	27.59	60.9	1.940
1247.	3.62	34.59			27.52	67.7						
1558.	2.92	34.61			27.60	59.9						

TEMPERATURE ERROR TERM AT 100. METERS IS 0.26
TEMPERATURE ERROR TERM AT 150. METERS IS 0.11

CROMWELL DRY BULB 24.1		1, STATION WET BULB 21.2	29, 14--30N LAT, 148--5W LONG, FEB. 29, 1964, 0400 G.C.T.	29, 14--30N WIND SPEED 26, DIR. 08	BAR. 17	WEATHER 02	VIS. 6	CLOUD TYPE 4, COVER 4					
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	23.64	34.23			23.19	469.6	0.	23.64	34.23	23.19	469.6	0.000	
10.	23.65	34.23			23.18	470.3	10.	23.65	34.23	23.18	470.3	0.048	
30. ^Δ	23.65	34.23			23.18	471.1	20.	23.65	34.23	23.18	470.8	0.095	
50. ^Δ	23.64	34.25			23.20	470.1	30.	23.65	34.23	23.18	471.1	0.143	
75.	20.74	34.72			24.37	359.3	50.	23.64	34.25	23.20	470.1	0.237	
104.	18.84	34.89			25.00	300.5	75.	20.74	34.72	24.37	359.3	0.342	
129.	15.11	34.40			25.50	252.5	100.	19.13	34.90	24.93	306.7	0.426	
153.	12.48	34.40			26.05	200.7	150.	12.74	34.38	25.99	206.6	0.555	
183.	11.64	34.55			26.33	175.0	200.	11.32	34.63	26.45	164.0	0.649	
207.	11.22	34.65			26.48	160.7	250.	10.63	34.62	26.57	153.3	0.729	
233.	10.91	34.63			26.52	157.3	300.	10.12	34.65	26.68	143.5	0.803	
263.	10.45	34.63			26.60	150.0	400.	8.97	34.62	26.84	129.4	0.941	
277.	10.36	34.65			26.64	147.3	500.	7.83	34.57	26.98	117.1	1.066	
312.	9.98	34.65			26.70	141.7	600.	6.90	34.54	27.09	107.1	1.179	
415.	8.80	34.61			26.86	127.5	700.	6.14	34.53	27.19	98.8	1.283	
521.	7.60	34.56			27.01	114.8	800.	5.51	34.53	27.26	91.8	1.379	
624.	6.71	34.54			27.12	105.0	1000.	4.66	34.55	27.38	81.8	1.555	
828.	5.36	34.53			27.28	90.0	1200.	3.95	34.57	27.47	72.5	1.711	
1036.	4.54	34.55			27.35	80.2	1500.	3.08	34.60	27.58	62.4	1.916	
1234.	3.84	34.59			27.49	71.0							
1543.	2.97	34.60			27.59	61.1							

CROMWELL DRY BULB 23.0		1, STATION WET BULB 20.3	30, 16-- ON LAT, 147--58W LONG, FEB. 29, 1964, 1500 G.C.T.	30, 16-- WIND SPEED 30, DIR. 09	BAR. 17	WEATHER 50	VIS. 6	CLOUD TYPE 5, COVER 0					
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	23.45	34.34			23.32	456.4	0.	23.45	34.34	23.32	456.4	0.000	
10.	23.44	34.34			23.33	456.5	10.	23.44	34.34	23.33	456.5	0.046	
49.	23.45	34.34			23.32	458.3	20.	23.44	34.34	23.33	457.0	0.092	
75.	23.46	34.36			23.34	458.1	30.	23.44	34.34	23.33	457.4	0.139	
104.	20.84	34.82			24.42	354.7	50.	23.47	34.34	23.32	459.1	0.231	
128.	19.74	34.88			24.76	325.2	75.	23.46	34.36	23.34	458.1	0.346	
157.	17.70	34.78			25.20	283.2	100.	21.24	34.76	24.26	370.6	0.451	
181.	15.48	34.52			25.51	253.1	150.	18.26	34.82	25.09	293.0	0.618	
205.	12.78	34.23			25.84	220.2	200.	13.32	34.28	25.79	226.7	0.749	
231.	10.96	34.18			26.16	191.2	250.	10.77	34.35	26.33	175.8	0.950	
259.	10.75	34.43			26.40	169.8	300.	9.77	34.46	26.54	151.6	0.933	
275.	10.24	34.43			26.49	161.4	400.	8.37	34.51	26.86	127.8	1.074	
309.	9.65	34.48			26.62	148.7	500.	7.44	34.52	27.00	115.1	1.197	
412.	8.23	34.51			26.88	126.0	600.	6.77	34.53	27.10	106.4	1.308	
516.	7.33	34.52			27.02	113.7	700.	6.11	34.53	27.19	96.8	1.412	
625.	6.62	34.53			27.12	104.5	800.	5.49	34.52	27.26	92.0	1.508	
821.	5.36	34.52			27.27	90.7	1000.	4.55	34.54	27.38	81.0	1.664	
1028.	4.44	34.54			27.40	79.6	1200.	3.84	34.57	27.48	71.8	1.838	
1227.	3.76	34.57			27.49	70.7	1500.	3.10	34.60	27.58	62.1	2.042	
1536.	3.04	34.61			27.59	61.2							

^Δ FROM BT DATA

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA		INTERPOLATED DATA							
CROMWELL DRY BULB 22.5		1, STATION WET BULB 19.4		31, 17-30N LAT, 148- WIND SPEED 24, DIR. 08		OW LONG, MAR. BAR. 19		1, 1964, 0000 G.C.T. WEATHER 02		VIS. 7		CLOUD TYPE 2, COVER 7	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN-DPTH.	
0.	23.32	34.32			23.35	454.2	0.	23.32	34.32	23.35	454.2	0.000	
10.	23.31	34.31			23.34	455.1	10.	23.31	34.31	23.34	455.1	0.046	
30.Δ	23.31	34.32			23.35	455.1	20.	23.31	34.31	23.35	455.2	0.092	
50.Δ	23.30	34.32			23.35	455.6	30.	23.31	34.32	23.35	455.1	0.138	
76.	23.28	34.34			23.37	454.6	50.	23.30	34.32	23.35	455.6	0.230	
100.Δ	23.00	34.55			23.61	432.6	75.	23.28	34.34	23.37	454.8	0.344	
117.	22.18	34.72			23.98	398.3	100.	23.00	34.55	23.61	432.6	0.456	
131.	19.84	34.72			24.61	338.4	150.	17.83	34.57	25.00	301.3	0.641	
161.	16.62	34.47			25.22	281.1	200.	12.84	34.33	25.92	213.9	0.771	
187.	13.65	34.36			25.78	227.1	250.	10.43	34.33	26.38	171.2	0.868	
212.	12.26	34.31			26.02	204.7	300.	9.96	34.49	26.58	152.6	0.950	
237.	10.85	34.29			26.27	181.4	400.	8.50	34.50	26.82	130.9	1.093	
267.	10.16	34.41			26.48	161.4	500.	7.33	34.47	26.98	117.0	1.218	
282.	10.14	34.46			26.53	157.7	600.	6.44	34.46	27.09	107.1	1.331	
318.	9.70	34.51			26.64	147.5	700.	5.75	34.46	27.18	98.8	1.435	
422.	8.18	34.48			26.86	127.6	800.	5.23	34.49	27.26	91.3	1.531	
528.	7.07	34.47			27.01	113.8	1000.	4.42	34.53	27.35	79.7	1.704	
633.	6.18	34.45			27.12	104.4	1200.	3.88	34.56	27.47	73.0	1.859	
840.	5.06	34.50			27.29	88.5	1500.	3.05	34.60	27.58	61.8	2.064	
1050.	4.26	34.54			27.41	77.6							
1251.	3.76	34.56			27.48	71.7							
1563.	2.90	34.61			27.60	59.7							

CROMWELL DRY BULB 21.6		1, STATION 32, 19- WET BULB 19.7		ON LAT, 148- WIND SPEED 25, DIR. 09		ON LONG, MAR. BAR. 22		1, 1964, 1100 G.C.T. WEATHER 50		VIS. 7			CLOUD TYPE 5, COVER 8	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN-DPTH.		
1.	22.67	34.79			23.89	402.5	0.	22.67	34.79	23.89	402.5	0.000		
10.	22.68	34.78			23.88	403.9	10.	22.68	34.78	23.88	403.9	0.041		
30. ^Δ	22.68	34.79			23.89	403.9	20.	22.68	34.78	23.88	404.1	0.082		
50.	22.68	34.79			23.89	404.7	30.	22.68	34.79	23.89	403.9	0.122		
76.	22.86	34.93			23.94	400.5	50.	22.68	34.79	23.89	404.7	0.204		
106.	22.84	34.90			23.92	403.2	75.	22.85	34.92	23.94	400.6	0.305		
130.	21.53	35.14			24.47	351.5	100.	22.93	34.90	23.90	405.4	0.407		
161.	20.14	35.12			24.84	318.1	150.	20.64	35.16	24.73	327.6	0.592		
186.	18.72	34.97			25.09	294.6	200.	17.71	34.82	25.22	282.2	0.745		
211.	16.87	34.69			25.33	272.3	250.	13.85	34.32	25.71	235.9	0.876		
236.	14.95	34.46			25.59	247.8	300.	11.01	34.25	26.21	188.3	0.993		
266.	12.71	34.22			25.86	221.8	400.	9.34	34.49	26.68	144.9	1.151		
281.	11.88	34.22			26.03	205.9	500.	8.12	34.48	26.87	128.3	1.289		
316.	10.42	34.29			26.35	175.7	600.	6.94	34.43	27.00	115.9	1.412		
420.	9.29	34.52			26.72	142.1	700.	6.08	34.44	27.12	104.7	1.524		
525.	7.76	34.45			26.90	125.3	800.	5.40	34.47	27.23	94.9	1.624		
631.	6.65	34.43			27.04	112.4	1000.	4.41	34.51	27.38	81.1	1.803		
836.	5.20	34.48			27.26	91.7	1200.	3.78	34.56	27.48	71.6	1.957		
1046.	4.24	34.52			27.40	78.8	1500.	2.98	34.60	27.59	61.3	2.159		
1247.	3.66	34.57			27.50	69.7								
1558.	2.87	34.60			27.60	60.0								

TEMPERATURE ERROR TERM AT 400. METERS IS 0.13

CROMWELL DRY BULB 21.7		1, STATION WET BULB 18.2			33, 20-34N LAT, 147-59W LONG, MAR. WIND SPEED 33, DIR. 09		1, 1964, 2200 G.C.T. BAR. 23 WEATHER 02		VIS. 6		CLOUD TYPE 6, COVER 8	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN-DPTH.
0.	22.65	34.86			23.95	396.9	0.	22.65	34.86	23.95	396.9	0.000
10.	22.64	34.85			23.94	397.7	10.	22.64	34.85	23.94	397.7	0.041
50.Δ	22.63	35.00			24.06	388.1	20.	22.64	34.87	23.96	396.3	0.091
74.	22.62	35.09			24.13	382.3	30.	22.63	34.91	23.99	394.2	0.120
103.	22.40	35.13			24.22	374.5	50.	22.63	35.00	24.06	388.1	0.199
127.	21.02	35.13			24.61	338.8	75.	22.63	35.09	24.13	382.4	0.296
156.	20.18	35.15			24.85	316.8	100.	22.46	35.13	24.20	376.3	0.392
180.	19.50	35.09			24.98	304.9	150.	20.32	35.15	24.81	320.1	0.567
204.	18.63	34.96			25.10	293.8	200.	18.80	34.99	25.08	295.9	0.722
230.	16.97	34.71			25.32	273.8	250.	15.36	34.51	25.53	253.6	0.861
258.	14.72	34.43			25.61	245.8	300.	11.95	34.16	25.97	212.1	0.978
273.	13.72	34.32			25.74	233.8	400.	7.97	34.05	26.55	155.8	1.164
306.	11.58	34.13			26.01	207.6	500.	6.22	34.13	26.86	127.0	1.307
407.	7.81	34.06			26.58	152.9	600.	5.56	34.26	27.04	110.1	1.426
509.	6.14	34.14			26.88	125.2	700.	5.11	34.36	27.17	98.1	1.532
610.	5.52	34.27			27.06	108.7	800.	4.73	34.43	27.27	89.4	1.626
807.	4.71	34.43			27.28	88.9	1000.	4.10	34.50	27.40	78.2	1.796
1013.	4.06	34.50			27.40	77.7	1200.	3.62	34.54	27.48	71.1	1.947
1207.	3.61	34.54			27.48	70.9	1500.	2.91	34.58	27.58	61.6	2.149
1513.	2.88	34.58			27.58	61.3						

Table 1.--Continued

ORIGINAL DATA					DERIVED DATA		INTERPOLATED DATA						
CROMWELL DRY BULB 21.0		1, STATION 34, 22- MET BULB 19.0		ON LAT, 147-53W LONG, MAR. WIND SPEED 22, DIR. 08		2, 1964, 0700 G.C.T. BAR. 25		0700 G.C.T. WEATHER 01		VIS. 7		CLOUD TYPE , COVER	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	22.40	35.04			24.16	377.1	0.	22.40	35.04	24.16	377.1	0.000	
10.	22.38	35.02			24.15	378.4	10.	22.38	35.02	24.15	378.4	0.039	
50. ^A	22.37	35.05			24.17	377.5	20.	22.37	35.02	24.15	378.6	0.077	
72.	22.37	35.06			24.18	377.6	30.	22.37	35.02	24.15	378.5	0.115	
100.	21.92	35.26			24.46	352.1	50.	22.37	35.05	24.17	377.5	0.191	
123.	21.82	35.30			24.52	347.4	75.	22.33	35.08	24.21	375.0	0.286	
151.	21.22	35.27			24.66	334.8	100.	21.92	35.26	24.46	352.1	0.377	
175.	19.27	35.05			25.01	301.9	150.	21.26	35.27	24.65	335.5	0.551	
199.	17.94	34.87			25.21	283.7	200.	17.88	34.86	25.21	282.8	0.706	
222.	16.45	34.67			25.41	264.7	250.	14.64	34.45	25.65	242.4	0.839	
250.	14.64	34.45			25.65	242.4	300.	10.88	34.11	26.12	196.7	0.950	
264.	12.91	34.27			25.86	221.2	400.	9.07	34.25	26.54	158.1	1.129	
297.	10.98	34.11			26.11	198.2	500.	7.09	34.23	26.82	131.2	1.275	
397.	9.14	34.25			26.53	159.1	600.	6.41	34.35	27.01	114.3	1.398	
497.	7.12	34.23			26.82	131.8	700.	5.78	34.42	27.15	102.0	1.508	
596.	6.44	34.35			27.00	114.8	800.	5.22	34.46	27.25	92.9	1.606	
791.	5.27	34.46			27.24	93.6	1000.	4.33	34.50	27.38	80.7	1.782	
990.	4.36	34.50			27.37	81.2	1200.	3.68	34.54	27.47	71.8	1.936	
1181.	3.78	34.54			27.46	72.8							
1479.	3.02	34.57			27.56	63.5							

CROMWELL		1, STATION 35, 23-32N LAT, 147-48W LONG, MAR.				2, 1964, 1700 G.C.T.							
DRY BULB 21.0		WET BULB 18.0		WIND SPEED 26, DIR. 13		BAR. 24		WEATHER 01		VIS. 7		CLOUD TYPE , COVER	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.CPTH.	
0.	21.52	35.24			24.55	339.2	0.	21.52	35.24	24.55	339.2	0.000	
9.	21.54	35.23			24.54	340.8	10.	21.54	35.23	24.54	340.9	0.035	
30. ^A	21.54	35.23			24.54	341.6	20.	21.54	35.23	24.54	341.5	0.069	
50. ^A	21.54	35.23			24.54	342.3	30.	21.54	35.23	24.54	341.6	0.104	
72.	21.46	35.29			24.61	336.7	50.	21.54	35.23	24.54	342.3	0.172	
101.	21.40	35.29			24.62	336.2	75.	21.45	35.29	24.61	336.5	0.258	
125.	21.34	35.29			24.64	335.5	100.	21.40	35.29	24.62	336.2	0.343	
153.	21.00	35.30			24.74	326.9	150.	21.09	35.31	24.72	328.7	0.510	
177.	19.06	35.03			25.05	298.3	200.	17.42	34.79	25.27	277.4	0.663	
200.	17.42	34.79			25.27	277.4	250.	13.69	34.31	25.74	233.0	0.792	
224.	15.55	34.54			25.51	254.4	300.	11.24	34.09	26.04	204.3	0.902	
253.	13.49	34.29			25.76	230.8	400.	8.24	34.03	26.50	161.5	1.086	
267.	12.64	34.19			25.86	222.0	500.	6.22	34.05	26.79	133.1	1.235	
300.	11.24	34.09			26.04	204.3	600.	5.31	34.16	26.99	114.3	1.360	
397.	8.32	34.03			26.49	162.5	700.	4.65	34.26	27.15	100.0	1.468	
494.	6.30	34.04			26.78	134.5	800.	4.24	34.35	27.26	89.4	1.564	
593.	5.36	34.15			26.98	115.4	1000.	3.89	34.49	27.41	76.5	1.732	
783.	4.29	34.33			27.25	91.0	1200.	3.48	34.56	27.51	68.1	1.878	
980.	3.93	34.48			27.40	77.3							
1170.	3.55	34.53			27.48	70.7							
1471.	2.86	34.59			27.59	60.1							

CROMWELL DRY BULB 21.4		1, STATION 36, 24-59N LAT, 147-52W LONG, MAR. MET BULB 18.9 WIND SPEED 28, DIR. 09				3, 1964, 0300 G.C.T. BAR. 23 WEATHER 15		VIS. 7	CLOUD TYPE 6, COVER 8			
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	21.08	35.31			24.73	322.7	0.	21.08	35.31	24.73	322.7	0.000
10.	21.07	35.32			24.74	322.0	10.	21.07	35.32	24.74	322.0	0.033
30. ^A	21.07	35.32			24.74	322.8	20.	21.07	35.32	24.74	322.2	0.065
50. ^A	21.06	35.31			24.73	324.0	30.	21.07	35.32	24.74	322.8	0.098
71.	21.06	35.31			24.73	324.8	50.	21.06	35.31	24.73	324.0	0.163
99.	20.07	35.16			24.88	311.2	75.	20.96	35.29	24.75	323.5	0.245
122.	19.16	35.07			25.05	295.9	100.	20.03	35.16	24.89	310.6	0.324
150.	18.14	34.89			25.17	285.3	150.	18.14	34.89	25.17	285.3	0.475
174.	17.16	34.74			25.30	274.2	200.	15.29	34.48	25.52	252.7	0.610
197.	15.46	34.50			25.50	254.6	250.	12.90	34.23	25.83	224.0	0.730
220.	14.30	34.36			25.65	241.1	300.	10.58	34.04	26.13	196.2	0.836
248.	13.03	34.24			25.82	225.3	400.	8.09	34.03	26.52	159.1	1.016
262.	12.14	34.14			25.91	216.1	500.	6.41	34.08	26.79	133.3	1.163
295.	10.75	34.05			26.10	198.5	600.	5.40	34.16	26.99	114.9	1.288
393.	8.24	34.03			26.50	161.2	700.	4.80	34.27	27.14	101.1	1.398
490.	6.54	34.07			26.77	135.4	800.	4.44	34.36	27.26	90.5	1.494
586.	5.50	34.15			26.96	117.1	1000.	3.89	34.49	27.42	76.2	1.663
774.	4.53	34.34			27.23	93.0	1200.	3.45	34.55	27.51	68.0	1.809
970.	3.96	34.48			27.40	77.6						
1156.	3.56	34.53			27.48	70.7						
1455.	3.01	34.57			27.56	63.3						

^AFROM BT DATA

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL DRY BULB 21.0		1, STATION 37, 26-30N LAT, 148- 0W LONG, MAR. 3, 1964, 1500 G.C.T.				3, 1964, 1500 G.C.T.		VIS. 6 CLOUD TYPE , COVER				
		WET BULB 17.9 WIND SPEED 26, DIR. 10				BAR. 24 WEATHER 02						
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	21.49	35.28			24.59	335.5	0.	21.49	35.28	24.59	335.5	0.000
10.	21.48	35.23			24.59	335.6	10.	21.48	35.28	24.59	335.6	0.034
30. ^Δ	21.48	35.28			24.59	336.4	20.	21.48	35.28	24.59	336.1	0.068
50. ^Δ	21.46	35.29			24.61	335.9	30.	21.48	35.28	24.59	336.4	0.102
76.	21.24	35.29			24.67	331.1	50.	21.46	35.29	24.61	335.9	0.170
105.	20.86	35.28			24.76	323.0	75.	21.25	35.29	24.67	331.3	0.254
121.	20.35	35.20			24.84	316.2	100.	20.96	35.29	24.74	324.7	0.336
171.	19.39	35.14			25.05	298.2	150.	19.94	35.20	24.95	306.8	0.496
186.	18.44	34.95			25.14	289.3	200.	17.43	34.80	25.28	277.0	0.643
211.	16.67	34.70			25.38	267.1	250.	14.88	34.45	25.59	247.8	0.775
236.	15.38	34.54			25.55	251.1	300.	11.50	34.15	26.04	204.8	0.889
267.	12.94	34.23			25.75	232.9	400.	8.94	34.04	26.39	171.7	1.079
273.	12.94	34.29			25.87	220.6	500.	6.59	34.02	26.72	140.0	1.236
307.	11.40	34.12			26.04	205.1	600.	5.50	34.08	26.91	122.2	1.369
404.	8.87	34.04			26.41	170.4	700.	4.79	34.20	27.09	105.7	1.484
501.	6.57	34.02			26.73	139.7	800.	4.31	34.32	27.24	91.9	1.584
597.	5.53	34.08			26.91	122.8	1000.	3.74	34.47	27.41	76.1	1.754
787.	4.36	34.31			27.22	93.3	1200.	3.36	34.55	27.51	67.5	1.899
982.	3.78	34.46			27.40	77.1						
1171.	3.46	34.53			27.49	69.6						
1474.	2.97	34.56			27.56	63.6						
TEMPERATURE ERROR TERM AT 150. METERS IS 0.18												
TEMPERATURE ERROR TERM AT 250. METERS IS 0.16												
TEMPERATURE ERROR TERM AT 300. METERS IS 0.12												

CROMWELL DRY BULB 27.0		1, STATION 38, 25- ON LAT, 151- OW LONG, MAR. 4, 1964, 0900 G.C.T.				4, 1964, 0900 G.C.T.		VIS. 6 CLOUD TYPE , COVER 0					
		WET RULE 19.0		WIND SPEED 19, DIR: 12		BAR. 23 WEATHER 01							
DEPTH	TEMP.	SAL.	DXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	22.45	35.13			24.21	372.0	0.	22.45	35.13	24.21	372.0	0.000	
11.	22.44	35.13			24.21	372.1	10.	22.44	35.13	24.21	372.1	0.038	
30. ^Δ	22.44	35.13			24.21	372.8	20.	22.44	35.13	24.21	372.4	0.075	
50. ^Δ	22.44	35.13			24.21	373.6	30.	22.44	35.13	24.21	372.8	0.113	
75.	22.29	35.25			24.35	361.8	50.	22.44	35.13	24.21	373.6	0.188	
105.	21.89	35.26			24.47	351.5	75.	22.29	35.25	24.35	361.8	0.281	
130.	20.78	35.18			24.71	329.1	100.	22.00	35.27	24.44	353.7	0.371	
159.	19.30	35.03			24.99	303.5	150.	19.73	35.08	24.91	310.7	0.438	
185.	18.60	34.97			25.12	291.7	200.	17.99	34.88	25.20	284.0	0.538	
209.	17.54	34.81			25.26	279.0	250.	15.12	34.49	25.57	249.6	0.688	
234.	16.16	34.61			25.43	263.0	300.	11.51	34.12	26.02	206.7	0.823	
264.	14.04	34.37			25.71	236.3	400.	8.74	34.04	26.43	168.4	0.938	
279.	12.65	34.21			25.87	221.0	500.	6.56	34.02	26.73	139.2	1.127	
314.	11.02	34.11			26.10	199.3	600.	5.30	34.10	26.95	118.6	1.282	
418.	8.42	34.04			26.48	163.7	700.	4.69	34.22	27.11	103.5	1.413	
523.	6.13	34.03			26.79	133.4	800.	4.28	34.33	27.24	91.3	1.525	
627.	5.12	34.13			26.99	114.3	1000.	3.74	34.48	27.42	75.2	1.623	
831.	4.20	34.36			27.28	88.1	1200.	3.31	34.54	27.51	67.0	1.792	
1039.	3.66	34.50			27.45	73.2	1500.	2.74	34.59	27.60	58.7	1.936	
1240.	3.23	34.55			27.53	65.9						2.127	
1549.	2.66	34.59			27.61	58.2							

CROMWELL		1, STATION 39, 25- 3N LAT, 154- 3W LONG, MAR. 4, 1964, 2400 G.C.T.				4, 1964, 2400 G.C.T.		VIS. 9 CLOUD TYPE 8, COVER 2				
DRY BULB 23.8		WET BULB 20.1		WIND SPEED 18, DIR. 10		BAR. 22		WEATHER 02				
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	22.66	35.21			24.21	371.9	0.	22.66	35.21	24.21	371.9	0.000
9.	22.66	35.18			24.19	374.4	10.	22.66	35.18	24.19	374.5	0.038
30.Δ	22.66	35.18			24.19	375.2	20.	22.67	35.17	24.18	375.4	0.076
50.Δ	22.58	35.18			24.21	373.8	30.	22.66	35.18	24.19	375.2	0.114
75.Δ	22.50	35.18			24.23	372.6	50.	22.58	35.18	24.21	373.8	0.189
101.	22.46	35.18			24.24	372.5	75.	22.50	35.18	24.23	372.6	0.283
125.	19.60	35.01			24.89	311.2	100.	22.49	35.18	24.24	373.1	0.377
155.	19.00	35.02			25.06	296.8	150.	19.04	35.02	25.05	297.3	0.546
179.	17.43	34.76			25.25	279.1	200.	16.67	34.68	25.37	267.3	0.688
203.	16.52	34.67			25.39	265.7	250.	13.92	34.39	25.75	232.4	0.814
227.	15.39	34.57			25.57	248.9	300.	11.71	34.18	26.03	206.0	0.925
256.	13.57	34.34			25.79	228.8	400.	8.76	34.08	26.46	165.7	1.112
270.	13.08	34.29			25.85	223.2	500.	6.16	34.02	26.78	134.1	1.264
304.	11.52	34.17			26.05	203.6	600.	5.08	34.11	26.98	115.2	1.390
405.	8.65	34.08			26.47	164.0	700.	4.55	34.22	27.13	101.3	1.499
507.	6.01	34.02			26.80	132.3	800.	4.22	34.33	27.25	90.3	1.596
609.	5.04	34.12			27.00	113.8	1000.	3.75	34.48	27.42	75.1	1.753
810.	4.20	34.34			27.26	89.4	1200.	3.24	34.54	27.52	66.5	1.907
1013.	3.72	34.49			27.43	74.4	1500.	2.70	34.58	27.60	59.0	2.098
1208.	3.22	34.54			27.52	66.3						
1514.	2.68	34.58			27.60	58.9						
TEMPERATURE ERROR TERM AT 150. METERS IS 0.11												

^Δ FROM BT DATA

Table 1.--Continued

ORIGINAL DATA						DERIVED DATA		INTERPOLATED DATA					
CROMWELL DRY BULB 22.8		1, STATION WET BULB 20.2	40, 25- ON LAT, 157- WIND SPEED 13, DIR. 10	ON LONG, MAR. 5, 1964, 2000 G.C.T. BAR. 22	WEATHER 01	VIS. 8	CLOUD TYPE 8, COVER 2						
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	22.56	35.29			24.30	363.4	0.	22.56	35.29	24.30	363.4	0.000	
10.	22.52	35.29			24.31	362.7	10.	22.52	35.29	24.31	362.7	0.037	
30.Δ	22.46	35.29			24.33	361.8	20.	22.49	35.29	24.32	362.3	0.074	
50.Δ	22.40	35.30			24.35	360.2	30.	22.46	35.29	24.33	361.8	0.110	
76.	22.10	35.30			24.44	353.2	50.	22.40	35.30	24.35	360.2	0.183	
106.	20.14	35.08			24.80	319.1	75.	22.13	35.30	24.43	353.7	0.273	
130.	18.75	34.92			25.04	297.1	100.	20.59	35.13	24.72	326.5	0.358	
160.	17.08	34.79			25.35	268.2	150.	17.64	34.83	25.25	277.8	0.511	
185.	15.58	34.65			25.59	245.9	200.	14.94	34.57	25.68	238.3	0.641	
211.	14.52	34.52			25.72	233.7	250.	12.96	34.37	25.94	214.2	0.755	
236.	13.45	34.40			25.86	221.6	300.	11.21	34.20	26.14	195.5	0.858	
266.	12.45	34.34			26.01	207.4	400.	9.21	34.11	26.41	170.6	1.043	
280.	12.03	34.27			26.04	205.0	500.	7.26	34.05	26.66	147.0	1.203	
315.	10.59	34.17			26.22	187.1	600.	5.67	34.08	26.89	124.6	1.340	
420.	9.04	34.11			26.44	168.2	700.	4.83	34.19	27.08	106.7	1.457	
525.	6.71	34.04			26.72	140.5	800.	4.32	34.32	27.23	92.5	1.558	
631.	5.35	34.11			26.95	118.7	1000.	3.69	34.46	27.41	75.9	1.728	
835.	4.21	34.36			27.28	88.3	1200.	3.28	34.52	27.50	68.3	1.874	
1047.	3.58	34.48			27.44	73.8	1500.	2.68	34.59	27.61	58.4	2.067	
1247.	3.20	34.53			27.51	67.1							
1558.	2.58	34.59			27.62	57.3							

TEMPERATURE ERROR TERM AT 400. METERS IS 0.13

CROMWELL DRY BULB 22.8		1, STATION WET BULB 20.2	41, 23-33N LAT, 157- WIND SPEED 21, DIR. 08	6W LONG, MAR. 6, 1964, 0600 G.C.T. BAR. 19	WEATHER 02	VIS. 8	CLOUD TYPE 8, COVER 2						
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	22.91	35.26			24.18	375.1	0.	22.91	35.26	24.18	375.1	0.000	
10.	22.90	35.24			24.16	376.7	10.	22.90	35.24	24.16	376.7	0.038	
30.Δ	22.70	35.25			24.23	371.2	20.	22.81	35.24	24.19	374.5	0.076	
50.	22.62	35.26			24.26	369.1	30.	22.70	35.25	24.23	371.2	0.114	
76.	21.77	35.20			24.45	351.6	50.	22.67	35.26	24.26	369.1	0.188	
106.	20.18	35.12			24.82	317.2	75.	21.82	35.20	24.44	352.5	0.279	
131.	19.40	35.02			24.95	305.8	100.	20.50	35.14	24.75	323.7	0.364	
161.	18.24	34.89			25.15	288.1	150.	18.68	34.94	25.07	294.9	0.520	
186.	17.28	34.81			25.32	272.2	200.	16.40	34.72	25.46	259.6	0.660	
211.	15.72	34.64			25.55	250.4	250.	14.34	34.49	25.74	233.6	0.784	
236.	14.84	34.54			25.67	239.7	300.	12.83	34.35	25.94	215.0	0.897	
266.	13.78	34.43			25.81	226.7	400.	9.91	34.14	26.31	180.2	1.097	
281.	13.30	34.39			25.88	220.5	500.	7.20	34.05	26.66	146.3	1.262	
317.	12.44	34.31			25.99	210.7	600.	5.57	34.13	26.94	119.5	1.396	
422.	9.22	34.10			26.40	171.9	700.	4.86	34.26	27.13	102.2	1.508	
518.	6.80	34.05			26.72	140.9	800.	4.55	34.36	27.24	91.8	1.606	
633.	5.24	34.18			27.02	112.1	1000.	3.98	34.49	27.40	77.8	1.777	
839.	4.52	34.40			27.28	89.1	1200.	3.49	34.53	27.48	70.5	1.928	
1048.	3.84	34.50			27.43	75.4	1500.	2.84	34.58	27.58	61.0	2.128	
1247.	3.40	34.53			27.49	69.4							
1557.	2.74	34.58			27.60	59.9							

CROMWELL DRY BULB 22.8		1, STATION WET BULB 20.7	42, 22-4N LAT, 156-58W LONG, MAR. WIND SPEED 20, DIR. 07	6, 1964, 1600 G.C.T. BAR. 17	WEATHER 01	VIS. 8	CLOUD TYPE 8, COVER 1						
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	23.43	34.85			23.72	419.0	0.	23.43	34.85	23.72	419.0	0.000	
10.	23.42	34.85			23.72	419.2	10.	23.42	34.85	23.72	419.2	0.043	
50.Δ	23.42	34.92			23.77	415.6	20.	23.41	34.86	23.73	418.2	0.085	
74.	23.40	34.96			23.77	417.0	30.	23.40	34.88	23.75	417.3	0.127	
104.	23.54	35.14			23.90	405.2	50.	23.42	34.92	23.77	415.6	0.211	
128.	22.72	35.18			24.17	380.6	75.	23.55	34.97	23.77	416.9	0.316	
158.	21.08	35.12			24.58	342.2	100.	23.58	35.12	23.87	407.8	0.420	
182.	19.42	35.02			24.95	308.0	150.	21.57	35.15	24.47	353.1	0.611	
207.	18.24	34.90			25.15	288.9	200.	18.55	34.94	25.11	293.3	0.774	
231.	17.05	34.75			25.33	272.7	250.	15.34	34.56	25.58	249.0	0.911	
261.	14.30	34.45			25.72	235.7	300.	12.41	34.24	25.94	214.6	1.028	
275.	13.30	34.33			25.83	224.7	400.	9.19	34.09	26.40	171.7	1.223	
311.	12.18	34.23			25.98	211.5	500.	7.19	34.11	26.72	141.4	1.381	
415.	8.73	34.08			26.46	165.6	600.	5.85	34.22	26.97	116.8	1.511	
516.	6.98	34.13			26.76	137.5	700.	4.98	34.29	27.14	101.2	1.621	
622.	5.60	34.24			27.02	112.1	800.	4.46	34.35	27.24	91.7	1.719	
824.	4.38	34.36			27.26	90.2	1000.	3.87	34.45	27.39	78.7	1.891	
1031.	3.81	34.47			27.41	77.1	1200.	3.42	34.54	27.50	68.6	2.040	
1231.	3.35	34.55			27.52	67.3	1500.	2.78	34.58	27.59	59.9	2.236	
1541.	2.70	34.58			27.60	59.3							

FROM BT DATA

Table 2.--Original and derived oceanographic data for Townsend Cromwell cruise 2

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA				
CROMWELL DRY BULB 23.9		2, STATION WET BULB 21.1	1, 20-34N LAT, 157-16W LONG, MAR. 17, 1964, 0600 G.C.T.	WIND SPEED 17, DIR. 15	BAR. 18	WEATHER 02	VIS. 9	CLOUD TYPE , COVER				
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	24.11	34.88			23.54	435.9	0.	24.11	34.88	23.54	435.9	0.000
9.	24.10	34.88			23.54	436.0	10.	24.10	34.88	23.54	436.0	0.044
47.	23.86	34.91			23.64	428.6	20.	24.05	34.88	23.66	435.1	0.088
73.	23.61	34.99			23.77	416.8	30.	24.00	34.89	23.58	433.4	0.132
94.	23.41	35.04			23.87	404.4	50.	23.83	34.92	23.65	427.3	0.219
119.	22.80	35.12			24.10	386.7	75.	23.60	34.99	23.78	416.2	0.325
143.	20.79	35.07			24.62	337.7	100.	23.35	35.06	23.90	405.2	0.428
166.	19.70	35.00			24.86	315.9	150.	20.44	35.05	24.71	330.1	0.614
189.	18.18	34.87			25.15	289.0	200.	17.69	34.81	25.22	282.1	0.768
214.	17.11	34.74			25.31	274.3	250.	14.89	34.51	25.64	243.4	0.901
237.	15.82	34.62			25.52	254.9	300.	12.23	34.40	26.02	207.0	1.014
261.	14.12	34.42			25.73	234.2	400.	8.79	34.12	26.48	163.5	1.201
285.	12.91	34.35			25.93	215.9	500.	6.77	34.20	26.84	129.2	1.349
380.	9.34	34.12			26.40	171.5	600.	5.69	34.32	27.08	107.1	1.468
467.	7.32	34.16			26.73	139.3	700.	5.14	34.40	27.21	95.2	1.570
561.	6.00	34.28			27.01	113.6	800.	4.81	34.46	27.29	88.1	1.663
747.	5.01	34.43			27.24	92.0	1000.	4.20	34.51	27.40	78.4	1.832
936.	4.38	34.50			27.37	80.9	1200.	3.65	34.55	27.49	70.5	1.982
1126.	3.86	34.53			27.45	74.1						
1460.	3.03	34.58			27.57	62.8						

CROMWELL DRY BULB 23.3		2, STATION WET BULB 20.3	2, 19- IN LAT, 156-59W LONG, MAR. 17, 1964, 1700 G.C.T.	WIND SPEED 16, DIR. 14	BAR. 17	WEATHER 00	VIS. 9	CLOUD TYPE 8, COVER 2				
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	23.44	35.07			23.88	403.4	0.	23.44	35.07	23.88	403.4	0.000
10.	23.42	35.08			23.89	402.6	10.	23.42	35.08	23.89	402.6	0.041
30.5	23.00	35.11			24.04	389.6	20.	23.36	35.10	23.93	399.8	0.082
50.	20.76	35.06			24.62	334.3	30.	23.00	35.11	24.04	389.6	0.121
74.	19.50	35.01			24.92	307.0	50.	20.76	35.06	24.62	334.3	0.194
98.	18.63	34.92			25.07	293.1	75.	19.46	35.01	24.93	306.3	0.275
122.	17.54	34.80			25.25	276.9	100.	19.53	34.91	25.09	291.7	0.350
147.	16.88	34.74			25.36	266.9	150.	16.75	34.72	25.38	265.2	0.490
173.	15.43	34.56			25.56	248.9	200.	13.53	34.37	25.82	224.4	0.614
197.	13.63	34.38			25.80	225.5	250.	11.95	34.24	26.03	204.7	0.722
220.	13.02	34.32			25.88	218.6	300.	10.40	34.17	26.25	184.0	0.820
246.	12.04	34.25			26.02	205.8	400.	7.57	34.16	26.70	141.8	0.984
271.	11.49	34.22			26.10	198.6	500.	6.07	34.21	26.94	119.1	1.116
296.	10.54	34.17			26.23	186.1	600.	5.39	34.34	27.13	101.8	1.228
392.	7.74	34.16			26.67	144.2	700.	4.91	34.43	27.25	90.4	1.325
493.	6.14	34.20			26.92	120.5	800.	4.56	34.48	27.34	82.9	1.413
591.	5.44	34.33			27.11	109.0	1000.	3.96	34.53	27.44	74.0	1.571
788.	4.60	34.48			27.33	83.6	1200.	3.42	34.57	27.52	66.6	1.714
987.	3.99	34.53			27.44	74.4						
1186.	3.51	34.56			27.51	68.1						
1415.	2.76	34.60			27.61	57.8						

CROMWELL DRY BULB 24.0		2, STATION WET BULB 21.6	3, 17-30N LAT, 157-1W LONG, MAR. 18, 1964, 0200 G.C.T.	WIND SPEED 20, DIR. 19	BAR. 15	WEATHER 03	VIS. 9	CLOUD TYPE 6, COVER 7				
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
1.	23.81	34.59			23.41	448.5	0.	23.81	34.59	23.41	448.4	0.000
10.	23.75	34.60			23.43	446.4	10.	23.75	34.60	23.43	446.4	0.046
47.	23.64	34.60			23.47	444.7	20.	23.70	34.60	23.45	445.4	0.090
71.	23.65	34.61			23.47	445.2	30.	23.67	34.60	23.46	444.7	0.135
93.	23.71	34.68			23.51	442.7	50.	23.64	34.60	23.47	444.9	0.225
116.	23.50	34.80			23.66	429.1	75.	23.67	34.62	23.47	445.2	0.337
139.	22.50	35.10			24.17	380.8	100.	23.70	34.70	23.53	441.0	0.449
164.	20.57	35.08			24.69	332.1	150.	21.70	35.12	24.61	358.1	0.650
187.	18.88	34.94			25.02	300.7	200.	17.77	34.80	25.19	285.1	0.812
209.	16.91	34.68			25.31	273.9	250.	12.58	34.28	25.94	213.7	0.938
234.	13.98	34.35			25.71	235.7	300.	9.91	34.20	26.36	173.7	1.036
257.	12.07	34.27			26.03	205.2	400.	7.94	34.30	26.75	136.9	1.192
279.	10.77	34.21			26.22	186.8	500.	7.11	34.42	26.97	117.8	1.321
373.	8.22	34.26			26.68	143.6	600.	6.09	34.45	27.13	102.9	1.432
467.	7.51	34.40			26.90	124.3	700.	5.57	34.49	27.23	94.1	1.532
561.	6.36	34.43			27.08	107.4	800.	5.14	34.52	27.30	87.7	1.624
748.	5.41	34.51			27.26	91.2	1000.	4.32	34.54	27.41	77.9	1.791
939.	4.50	34.53			27.38	80.2	1200.	3.77	34.56	27.49	71.1	1.942
1131.	4.02	34.56			27.46	73.9						
1424.	3.39	34.59			27.54	66.2						

Table 2.--Continued

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA				
CROMWELL DRY BULB 24.0		2, STATION WET BULB 21.4	4, 16-- ON LAT, 157-- WIND SPEED 18, DIR. 06	OW LONG, MAR. 18, 1964, 1200 G.C.T.	BAR. 17	WEATHER 00	VIS. 8	CLOUD TYPE , COVER				
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	24.27	34.43			23.15	472.9	0.	24.27	34.43	23.15	472.9	0.000
8.	24.26	34.42			23.15	473.7	10.	24.25	34.42	23.15	473.6	0.048
30. Δ	24.08	34.42			23.20	469.4	20.	24.18	34.41	23.17	472.2	0.096
51.	23.86	34.46			23.30	461.1	30.	24.08	34.42	23.20	469.4	0.143
76.	23.65	34.57			23.44	448.3	50.	23.87	34.46	23.29	461.6	0.237
100.	23.82	35.04			23.75	420.1	75.	23.65	34.56	23.43	449.0	0.352
125.	21.37	35.01			24.42	356.5	100.	23.82	35.04	23.75	420.1	0.461
150.	20.28	35.07			24.76	324.9	150.	20.28	35.07	24.76	324.9	0.649
174.	18.87	34.97			25.05	297.9	200.	17.13	34.70	25.27	277.0	0.801
199.	17.08	34.92			25.26	278.7	250.	11.35	34.18	26.09	198.6	0.921
224.	13.88	34.33			25.71	234.9	300.	11.26	34.67	26.49	162.3	1.012
249.	11.42	34.18			26.08	199.8	400.	10.01	34.67	26.71	142.7	1.165
275.	10.52	34.30			26.34	175.8	500.	8.63	34.58	26.87	128.7	1.302
299.	11.25	34.66			26.48	162.7	600.	7.27	34.48	26.99	117.2	1.427
398.	10.04	34.67			26.71	143.1	700.	6.48	34.47	27.09	108.0	1.540
499.	8.64	34.58			26.87	128.8	800.	5.97	34.50	27.18	100.1	1.646
597.	7.30	34.48			26.99	117.5	1000.	5.07	34.54	27.32	87.4	1.835
798.	5.98	34.50			27.18	100.2	1200.	4.15	34.57	27.45	75.6	2.000
998.	5.08	34.54			27.32	87.6						
1133.	4.31	34.56			27.43	77.5						
1499.	3.35	34.58			27.54	67.0						

CROMWELL DRY BULB 24.8		2, STATION WET BULB 22.5	5, 14-30N LAT, 157-- WIND SPEED 14, DIR. 07	4W LONG, MAR. 18, 1964, 2100 G.C.T.	BAR. 16	WEATHER 02	VIS. 9	CLOUD TYPE 8, COVER 2					
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	24.80	34.43			22.99	488.1	0.	24.80	34.43	22.99	488.1	0.000	
9.	24.77	34.41			22.99	489.0	10.	24.77	34.41	22.99	489.1	0.050	
49.	24.68	34.41			23.01	488.0	20.	24.74	34.40	22.99	489.3	0.099	
76.	24.63	34.43			23.04	486.2	30.	24.72	34.40	22.99	489.1	0.148	
100.	24.46	34.45			23.11	480.8	50.	24.68	34.41	23.01	488.0	0.247	
123.	18.56	34.75			24.96	304.6	75.	24.63	34.43	23.04	486.3	0.369	
149.	14.44	34.39			25.64	239.8	100.	24.46	34.45	23.11	480.8	0.491	
175.	12.23	34.29			26.01	204.7	150.	14.32	34.38	25.66	238.1	0.672	
190.	11.75	34.36			26.16	191.1	200.	11.19	34.35	26.26	181.9	0.778	
220.	10.15	34.32			26.42	166.9	250.	9.78	34.41	26.55	154.3	0.863	
248.	9.81	34.41			26.54	155.2	300.	9.13	34.48	26.71	139.8	0.937	
276.	9.37	34.46			26.66	144.9	400.	8.55	34.59	26.89	124.7	1.071	
298.	9.14	34.48			26.71	140.2	500.	7.77	34.58	27.00	115.6	1.192	
397.	8.57	34.59			26.89	125.1	600.	6.85	34.55	27.11	105.9	1.304	
496.	7.81	34.58			26.99	116.0	700.	6.14	34.54	27.20	97.8	1.407	
595.	6.89	34.55			27.10	106.4	800.	5.56	34.55	27.27	90.8	1.502	
792.	5.60	34.55			27.27	91.3	1000.	4.59	34.56	27.39	79.8	1.675	
989.	4.64	34.56			27.39	80.3	1200.	3.84	34.57	27.49	71.2	1.828	
1186.	3.89	34.57			27.48	72.0							
1484.	3.10	34.61			27.59	61.6							

CROMWELL DRY BULB 24.9		2, STATION WET BULB 22.7	6, 12-56N LAT, 157-- WIND SPEED 13, DIR. 07	OW LONG, MAR. 19, 1964, 0600 G.C.T.	BAR. 13	WEATHER 02	VIS. 8	CLOUD TYPE 4, COVER 6					
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	24.70	34.35			22.96	491.0	0.	24.70	34.35	22.96	491.0	0.000	
9.	24.70	34.35			22.96	491.3	10.	24.69	34.35	22.96	491.2	0.050	
30.Δ	24.54	34.35			23.01	487.6	20.	24.62	34.35	22.98	489.6	0.099	
48.	24.48	34.36			23.04	485.8	30.	24.54	34.35	23.01	487.6	0.149	
75.Δ	24.44	34.36			23.05	485.7	50.	24.50	34.35	23.03	486.9	0.247	
97.	23.45	34.67			23.57	436.3	75.	24.44	34.36	23.05	485.7	0.369	
120.	18.04	34.67			25.03	297.9	100.	22.82	34.69	23.77	417.7	0.483	
145.	14.38	34.40			25.66	237.8	150.	13.64	34.35	25.78	227.0	0.645	
169.	11.42	34.20			26.10	196.4	200.	10.41	34.23	26.30	177.5	0.747	
184.	10.80	34.20			26.21	185.9	250.	9.80	34.48	26.60	149.9	0.830	
215.	10.15	34.28			26.33	169.7	300.	9.25	34.54	26.74	137.3	0.902	
238.	9.73	34.41			26.56	153.7	400.	8.48	34.58	26.89	124.2	1.034	
264.	9.87	34.54			26.63	146.9	500.	7.62	34.57	27.01	113.8	1.154	
288.	9.40	34.54			26.71	139.8	600.	6.81	34.55	27.11	105.7	1.265	
383.	8.62	34.58			26.87	126.3	700.	6.10	34.54	27.20	97.8	1.368	
477.	7.82	34.58			26.99	115.8	800.	5.52	34.54	27.27	90.9	1.463	
571.	7.04	34.55			27.08	108.1	1000.	4.65	34.56	27.39	80.3	1.637	
758.	5.74	34.54			27.24	93.5	1200.	3.86	34.58	27.49	70.9	1.790	
951.	4.85	34.56			27.37	82.6							
1140.	4.10	34.57			27.46	74.2							
1391.	3.19	34.61			27.58	62.1							

TEMPERATURE ERROR TERM AT 100. METERS IS 0.12

Table 2.--Continued

ORIGINAL DATA					DERIVED DATA					INTERPOLATED DATA				
CROMWELL DRY BULB 24.8		2, STATION WET BULB 22.8	7, 11-24N LAT, 156-56W LONG, MAR. 19, 1964, 1500 G.C.T.			WIND SPEED 14, DIR. 07		BAR. 11	WEATHER 00	VIS. 8	CLOUD TYPE	COVER		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	25.21	34.34			22.80	506.5	0	25.21	34.34	22.80	506.5	0.000		
11.	25.18	34.35			22.82	505.3	10.	25.18	34.35	22.82	505.4	0.051		
49.	25.23	34.35			22.80	508.2	20.	25.23	34.34	22.80	507.7	0.102		
78.	24.59	34.53			23.13	477.9	30.	25.25	34.34	22.78	509.1	0.154		
100.	21.26	35.09			24.51	346.9	50.	25.25	34.35	22.80	508.8	0.256		
122.	18.73	34.89			25.02	298.5	75.	24.77	34.49	23.05	485.6	0.391		
149.	13.69	34.38			25.79	225.4	100.	21.26	35.09	24.51	346.9	0.486		
173.	12.09	34.61			26.29	178.6	150.	13.58	34.38	25.82	223.0	0.630		
188.	11.74	34.67			26.40	168.1	200.	11.54	34.70	26.47	162.2	0.727		
220.	11.28	34.74			26.54	155.5	250.	10.92	34.75	26.61	149.1	0.806		
246.	10.97	34.75			26.61	149.9	300.	10.21	34.72	26.71	140.4	0.879		
275.	10.58	34.74			26.67	144.5	400.	9.16	34.66	26.84	129.5	1.015		
297.	10.25	34.72			26.71	140.8	500.	8.18	34.61	26.96	119.3	1.140		
396.	9.20	34.66			26.84	129.9	600.	7.09	34.56	27.08	108.9	1.255		
487.	8.33	34.62			26.95	120.8	700.	6.32	34.54	27.17	100.7	1.361		
585.	7.22	34.56			27.06	110.2	800.	5.70	34.54	27.25	93.4	1.460		
778.	5.64	34.54			27.23	95.1	1000.	4.59	34.55	27.39	80.2	1.635		
967.	4.74	34.55			27.37	82.1	1200.	3.81	34.58	27.49	70.6	1.788		
1169.	3.96	34.58			27.48	72.0								
1463.	3.19	34.61			27.58	62.6								

CROMWELL DRY BULB 25.4		2, STATION WET BULB 22.8	8, 11-34N LAT, 154-2W LONG, MAR. 20, 1964, 0900 G.C.T.			WIND SPEED 14, DIR. 09		BAR. 12	WEATHER 00	VIS. 9	CLOUD TYPE	COVER		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	25.43	34.32			22.72	514.3	0.	25.43	34.32	22.72	514.3	0.000		
10.	25.44	34.33			22.72	514.3	10.	25.44	34.33	22.72	514.3	0.052		
30.	25.44	34.38			22.76	511.5	20.	25.45	34.35	22.74	513.3	0.104		
48.	25.38	34.44			22.82	506.1	30.	25.44	34.38	22.76	511.5	0.156		
74.	25.34	34.48			22.87	503.1	50.	25.48	34.44	22.79	509.0	0.258		
99.	19.70	34.65			24.59	338.9	75.	25.18	34.49	22.92	497.6	0.395		
120.	14.12	34.38			25.70	233.2	100.	19.41	34.64	24.66	332.4	0.490		
143.	11.71	34.33			26.14	191.4	150.	11.57	34.40	26.22	183.9	0.620		
168.	11.42	34.57			26.38	169.2	200.	10.64	34.60	26.55	154.3	0.705		
182.	10.75	34.55			26.49	159.3	250.	10.35	34.68	26.66	144.6	0.780		
212.	10.72	34.64			26.56	152.8	300.	9.88	34.68	26.75	137.3	0.852		
236.	10.42	34.66			26.63	146.7	400.	8.85	34.63	26.87	126.4	0.985		
263.	10.29	34.69			26.68	142.9	500.	7.89	34.59	26.99	116.4	1.107		
285.	10.04	34.69			26.72	139.2	600.	7.06	34.55	27.08	108.7	1.221		
377.	9.09	34.64			26.84	129.2	700.	6.32	34.55	27.17	100.1	1.326		
467.	8.19	34.61			26.96	119.0	800.	5.61	34.55	27.27	91.4	1.423		
559.	7.38	34.56			27.04	112.1	1000.	4.52	34.57	27.41	78.0	1.595		
743.	6.02	34.55			27.22	96.3	1200.	3.78	34.59	27.50	69.3	1.744		
927.	4.81	34.56			27.37	81.8								
1113.	4.16	34.59			27.47	73.2								
1395.	3.34	34.60			27.56	64.7								

TEMPERATURE ERROR TERM AT 150. METERS IS 0.12

CROMWELL DRY BULB 24.9		2, STATION WET BULB 22.2	9, 13- IN LAT, 154-2W LONG, MAR. 20, 1964, 1800 G.C.T.			WIND SPEED 22, DIR. 10		BAR. 12	WEATHER 03	VIS. 8	CLOUD TYPE 6,	COVER 7		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
1.	24.79	34.32			22.91	495.8	0.	24.79	34.32	22.91	495.7	0.000		
9.	24.80	34.32			22.91	496.4	10.	24.80	34.32	22.91	496.5	0.050		
30.	24.80	34.33			22.92	496.5	20.	24.81	34.32	22.91	496.8	0.100		
52.	24.66	34.35			22.97	491.9	30.	24.80	34.33	22.92	496.5	0.151		
75.	24.52	34.39			23.05	485.8	50.	24.68	34.35	22.97	492.4	0.250		
101.	21.78	34.70			24.07	388.8	75.	24.52	34.39	23.05	485.8	0.373		
126.	19.87	34.95			24.78	322.4	100.	21.90	34.69	24.03	393.1	0.484		
152.	16.15	34.55			25.39	264.6	150.	16.46	34.59	25.35	268.5	0.651		
176.	13.05	34.31			25.87	218.7	200.	11.70	34.40	26.19	187.9	0.766		
191.	12.17	34.37			26.09	198.1	250.	10.81	34.61	26.53	157.4	0.853		
224.	10.87	34.47			26.41	168.2	300.	10.26	34.65	26.65	146.2	0.929		
250.	10.81	34.61			26.53	157.4	400.	9.11	34.60	26.81	132.9	1.070		
276.	10.58	34.64			26.59	151.8	500.	7.93	34.55	26.95	120.1	1.198		
300.	10.26	34.65			26.65	146.2	600.	6.96	34.54	27.08	108.2	1.313		
399.	9.12	34.60			26.81	133.0	700.	6.20	34.54	27.18	99.1	1.418		
499.	7.94	34.55			26.95	120.2	800.	5.58	34.54	27.26	91.9	1.515		
598.	6.98	34.54			27.08	108.4	1000.	4.64	34.55	27.38	81.1	1.690		
795.	5.61	34.54			27.26	92.2	1200.	3.92	34.57	27.48	72.3	1.845		
993.	4.67	34.55			27.38	81.5								
1191.	3.98	34.58			27.48	72.4								
1489.	3.16	34.59			27.57	63.8								

FROM BT DATA

Table 2.--Continued

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA					
CROMWELL DRY BULB 25.0		2, STATION WET BULB 22.5		10, 14-30N LAT, 153-58N LONG, MAR. 21, 1964, 0200 G.C.T. WIND SPEED 16, DIR. 10		BAR. 11		WEATHER 02		VIS. 8		CLOUD TYPE 6, COVER 6	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	24.72	34.40			22.99	488.0	0.	24.72	34.40	22.99	488.0	0.000	
9.	24.60	34.38			23.02	486.3	10.	24.60	34.38	23.02	486.3	0.050	
30.	24.58	34.38			23.02	486.5	20.	24.57	34.38	23.02	486.1	0.099	
51.	24.53	34.38			23.04	485.9	30.	24.58	34.38	23.02	486.5	0.148	
78.	23.50	34.47			23.41	451.4	50.	24.54	34.38	23.03	486.2	0.246	
102.	21.56	35.05			24.40	357.8	75.	23.67	34.44	23.34	458.0	0.364	
126.	20.46	35.13			24.76	324.3	100.	21.72	35.00	24.32	365.5	0.468	
153.	18.80	34.94			25.05	297.6	150.	19.01	34.97	25.02	300.4	0.636	
178.	16.81	34.69			25.34	270.0	200.	14.69	34.43	25.62	243.4	0.773	
193.	15.30	34.50			25.54	251.1	250.	10.75	34.17	26.20	188.4	0.882	
226.	12.61	34.25			25.91	216.0	300.	9.27	34.28	26.53	156.9	0.969	
253.	10.55	34.17			26.23	185.4	350.	7.92	34.41	26.94	128.8	1.113	
282.	9.62	34.17			26.39	170.5	500.	7.01	34.46	27.01	113.5	1.235	
304.	9.20	34.31			26.57	153.8	600.	6.22	34.47	27.13	103.1	1.345	
405.	7.87	34.40			26.84	128.6	700.	5.63	34.49	27.21	95.3	1.445	
508.	6.95	34.46			27.02	112.5	800.	5.16	34.51	27.29	88.7	1.538	
609.	6.16	34.47			27.13	102.3	1000.	4.33	34.55	27.41	77.4	1.706	
811.	5.11	34.51			27.30	88.1	1200.	3.69	34.56	27.49	70.4	1.856	
1012.	4.29	34.55			27.42	76.9	1500.	2.93	34.58	27.58	61.8	2.057	
1215.	3.65	34.56			27.49	70.0							
1518.	2.89	34.58			27.58	61.5							

CROMWELL DRY BULB 24.2		2, STATION WET BULB	11, 16- 2N LAT, 22.6	154- 2W LONG, 14, DIR. 11	MAR. 21, 1964, 1100 G.C.T.		WEATHER 01	VIS. 8	CLOUD TYPE 0, COVER 0				
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
1.	24.02	34.84			23.54	436.3	0.	24.02	34.84	23.54	436.3	0.000	
11.	23.97	34.84			23.55	435.3	10.	23.97	34.84	23.55	435.4	0.044	
50.	23.84	34.86			23.60	431.7	20.	23.93	34.84	23.56	434.4	0.088	
75. ^Δ	23.83	34.88			23.62	431.0	30.	23.89	34.85	23.58	433.4	0.131	
102.	22.58	35.09			24.14	382.3	50.	23.84	34.86	23.60	431.7	0.219	
126.	20.48	35.05			24.69	330.6	75.	23.83	34.88	23.62	431.0	0.327	
152.	18.34	34.89			25.12	290.1	100.	22.71	35.08	24.09	386.9	0.430	
177.	16.25	34.66			25.45	259.6	150.	18.50	34.91	25.09	292.8	0.601	
193.	14.75	34.50			25.66	239.5	200.	14.07	34.43	25.75	230.8	0.733	
225.	11.95	34.24			26.03	204.4	250.	10.61	34.18	26.23	185.6	0.838	
250.	10.61	34.18			26.23	185.6	300.	9.21	34.28	26.54	156.1	0.925	
277.	9.84	34.21			26.38	171.0	400.	7.64	34.31	26.81	131.7	1.070	
303.	9.13	34.29			26.56	154.2	500.	6.89	34.41	26.99	115.0	1.194	
401.	7.69	34.31			26.81	131.7	600.	6.35	34.48	27.12	106.3	1.305	
505.	6.37	34.42			27.00	114.3	700.	5.80	34.50	27.20	96.8	1.407	
605.	6.33	34.48			27.12	103.9	800.	5.29	34.50	27.27	90.9	1.502	
805.	5.26	34.50			27.27	90.7	1000.	4.48	34.54	27.39	80.0	1.674	
1008.	4.45	34.54			27.39	79.6	1200.	3.84	34.57	27.48	71.5	1.828	
1209.	3.81	34.57			27.45	71.2	1500.	3.00	34.60	27.59	61.3	2.030	
1510.	2.98	34.60			27.59	61.0							

CROMWELL DRY BULB 22.9		2, STATION WET BULB	12, 17-33N LAT, 20.9	154- 2W LONG, 14, DIR. 05	MAR. 21, 1964, 2000 G.C.T.		WEATHER 02	VIS. 8	CLOUD TYPE 4, COVER 7				
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	23.45	34.34			23.32	456.4	0.	23.45	34.34	23.32	456.4	0.000	
10.	23.54	34.56			23.46	443.4	10.	23.54	34.56	23.46	443.4	0.066	
30. ^Δ	23.50	34.58			23.49	441.6	20.	23.54	34.60	23.50	440.5	0.090	
49.	23.45	34.60			23.52	439.5	30.	23.50	34.58	23.49	441.6	0.135	
76.	23.36	34.61			23.55	437.3	50.	23.45	34.60	23.52	439.4	0.224	
100.	23.38	34.67			23.59	434.5	75.	23.36	34.61	23.55	437.4	0.334	
122.	21.77	34.61			24.26	371.3	100.	23.38	34.67	23.59	434.5	0.444	
148.	20.59	35.05			24.66	333.9	150.	20.44	35.04	24.70	330.9	0.637	
173.	18.67	34.89			25.04	298.8	200.	16.54	34.65	25.37	261.7	0.787	
188.	17.66	34.79			25.21	282.5	250.	12.30	34.24	25.96	211.4	0.908	
219.	14.69	34.72			25.61	244.8	300.	10.42	34.36	26.40	170.5	1.005	
246.	12.61	34.26			25.92	215.8	400.	8.48	34.36	26.72	140.9	1.162	
273.	10.89	34.21			26.20	188.7	500.	6.69	34.33	26.96	118.3	1.292	
297.	10.48	34.35			26.38	171.9	600.	5.98	34.38	27.09	106.3	1.406	
395.	8.59	34.36			26.70	142.3	700.	5.43	34.44	27.20	96.3	1.508	
496.	6.73	34.33			26.95	118.9	800.	4.98	34.48	27.29	88.3	1.602	
594.	6.02	34.38			27.08	106.9	1000.	4.19	34.52	27.41	77.6	1.769	
791.	5.02	34.48			27.28	88.9	1200.	3.62	34.56	27.50	69.3	1.918	
991.	4.22	34.52			27.40	78.0							
1191.	3.68	34.57			27.50	69.5							
1493.	3.03	34.59			27.58	62.3							

^ΔFROM BT DATA

Table 2.--Continued

ORIGINAL DATA					DERIVED DATA					INTERPOLATED DATA				
CROMWELL DRY BULB 23.7		2, STATION WET BULB 21.1	13, 19- WIND SPEED 21, DIR. 09	54 LAT, 154- ON LONG, MAR. 22, 1964, 0500 G.C.T.	OW LONG, MAR. 22, 1964, 0500 G.C.T.	BAR. 14	WEATHER 50	VIS. 7	CLOUD TYPE 6,	COVER 8				
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. OPTH.		
1.	23.47	34.66			23.56	433.9	0.	23.47	34.66	23.56	433.9	0.000		
10.	23.46	34.66			23.56	434.0	10.	23.46	34.66	23.56	434.0	0.044		
30.Δ	23.38	34.69			23.61	430.4	20.	23.43	34.67	23.58	432.8	0.088		
50.Δ	23.28	34.78			23.71	421.9	30.	23.38	34.69	23.61	430.4	0.131		
75.Δ	23.27	34.79			23.72	421.8	50.	23.28	34.78	23.71	421.9	0.217		
99.	23.26	34.79			23.72	422.4	75.	23.27	34.79	23.72	421.8	0.323		
122.	23.00	34.92			23.89	406.8	100.	23.26	34.79	23.72	422.2	0.430		
146.	21.49	35.05			24.36	362.9	150.	21.37	35.03	24.43	356.2	0.626		
172.	19.78	34.89			24.75	326.1	200.	17.97	34.75	25.11	293.2	0.790		
186.	19.25	34.88			24.88	314.1	250.	12.18	34.23	25.98	209.9	0.916		
219.	15.71	34.51			25.46	259.9	300.	10.20	34.19	26.31	178.8	1.014		
244.	12.70	34.26			25.90	217.4	400.	7.50	34.10	26.66	145.4	1.178		
270.	10.96	34.19			26.17	191.4	500.	6.29	34.25	26.94	118.9	1.311		
293.	10.41	34.20			26.28	181.6	600.	5.66	34.34	27.10	105.1	1.424		
392.	7.64	34.09			26.63	147.9	700.	5.26	34.42	27.21	95.5	1.526		
490.	6.38	34.24			26.92	120.7	800.	4.96	34.48	27.29	88.5	1.619		
588.	5.71	34.33			27.08	106.5	1000.	4.27	34.53	27.41	77.7	1.787		
784.	5.02	34.47			27.27	89.6	1200.	3.67	34.57	27.50	69.5	1.936		
980.	4.34	34.53			27.40	78.7								
1176.	3.73	34.56			27.49	70.7								
1475.	3.01	34.60			27.59	61.2								

TEMPERATURE ERROR TERM AT 200. METERS IS 0.11

CROMWELL DRY BULB 23.5		2, STATION WET BULB 20.4	14, 20-31N LAT, 154- WIND SPEED 17, DIR. 10	OW LONG, MAR. 23, 1964, 0300 G.C.T.	OW LONG, MAR. 23, 1964, 0300 G.C.T.	BAR. 17	WEATHER 03	VIS. 9	CLOUD TYPE 4,	COVER 6				
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. OPTH.		
0.	23.54	34.68			23.56	434.4	0.	23.54	34.68	23.56	434.4	0.000		
10.	23.55	34.69			23.56	434.3	10.	23.55	34.69	23.56	434.3	0.044		
30.Δ	23.55	34.69			23.56	435.1	20.	23.55	34.69	23.56	434.6	0.088		
50.Δ	23.55	34.69			23.56	435.8	30.	23.55	34.69	23.56	435.1	0.131		
75.Δ	23.54	34.69			23.56	436.5	50.	23.55	34.69	23.56	435.8	0.220		
102.	23.49	34.69			23.58	436.2	75.	23.54	34.69	23.56	436.5	0.329		
125.	20.36	34.62			24.40	358.6	100.	23.56	34.69	23.56	438.0	0.440		
151.	16.52	34.84			25.52	251.7	150.	16.66	34.84	25.49	255.0	0.614		
177.	14.36	34.34			25.62	242.6	200.	12.57	34.22	25.90	216.5	0.733		
192.	13.00	34.24			25.82	223.3	250.	10.90	34.18	26.17	190.8	0.836		
226.	11.65	34.22			26.07	200.4	300.	8.77	34.12	26.49	160.7	0.924		
266.	10.23	34.15			26.27	181.7	400.	6.59	34.06	26.76	135.6	1.074		
280.	9.28	34.14			26.42	167.2	500.	5.61	34.14	26.94	118.1	1.202		
304.	8.72	34.12			26.49	160.3	600.	5.10	34.28	27.12	102.5	1.313		
404.	6.52	34.06			26.76	134.7	700.	4.84	34.39	27.23	92.4	1.412		
506.	5.58	34.15			26.96	117.1	800.	4.65	34.46	27.31	85.6	1.502		
607.	5.07	34.29			27.13	101.6	1000.	4.01	34.52	27.42	75.6	1.665		
809.	4.64	34.47			27.32	85.1	1200.	3.55	34.55	27.49	69.5	1.812		
1010.	3.98	34.52			27.43	75.3	1500.	2.96	34.58	27.58	62.2	2.012		
1211.	3.53	34.55			27.50	69.3								
1512.	2.94	34.58			27.58	62.0								

CROMWELL DRY BULB 21.0		2, STATION WET BULB 19.8	15, 22- WIND SPEED 16, DIR. 10	ON LAT, 153-58N LONG, MAR. 23, 1964, 1200 G.C.T.	OW LONG, MAR. 23, 1964, 1200 G.C.T.	BAR. 20	WEATHER 25	VIS. 9	CLOUD TYPE 4,	COVER 8				
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. OPTH.		
1.	23.39	34.84			23.72	418.7	0.	23.39	34.84	23.72	418.7	0.000		
10.	23.40	34.85			23.72	418.6	10.	23.40	34.85	23.72	418.6	0.043		
94.	23.36	34.89			23.77	417.8	20.	23.42	34.86	23.73	418.6	0.085		
116.	23.22	34.86			23.78	416.9	30.	23.44	34.87	23.73	418.6	0.127		
140.	23.12	35.08			23.98	399.2	50.	23.44	34.89	23.74	419.5	0.211		
164.	22.16	35.14			24.30	369.6	75.	23.41	34.90	23.76	418.2	0.317		
177.	20.93	35.14			24.64	337.5	100.	23.32	34.87	23.76	418.3	0.422		
208.	18.84	34.94			25.03	300.5	150.	22.88	35.12	24.08	390.0	0.626		
233.	17.71	34.82			25.22	283.0	200.	19.29	35.00	24.97	306.6	0.801		
257.	15.88	34.61			25.49	257.5	250.	16.43	34.68	25.42	264.8	0.945		
281.	14.39	34.41			25.67	241.0	300.	13.27	34.31	25.82	226.3	1.069		
374.	9.68	34.13			26.35	176.2	400.	8.84	34.12	26.47	164.3	1.266		
468.	7.17	34.13			26.73	139.4	500.	6.43	34.13	26.83	129.7	1.415		
551.	5.47	34.14			26.96	117.0	600.	5.12	34.20	27.05	108.6	1.535		
750.	4.94	34.42			27.24	91.9	700.	4.85	34.34	27.19	95.9	1.638		
938.	4.20	34.48			27.37	80.2	800.	4.74	34.45	27.29	88.0	1.731		
1130.	3.75	34.52			27.45	73.5	1000.	4.04	34.49	27.40	77.8	1.899		
1423.	3.08	34.57			27.56	63.9	1200.	3.52	34.54	27.49	70.1	2.049		

TEMPERATURE ERROR TERM AT 600. METERS IS 0.16
TEMPERATURE ERROR TERM AT 700. METERS IS 0.17

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL DRY BULB 22.3		2, STATION WET BULB 19.4	16, 23-31N LAT, 154- WIND SPEED 16, DIR. 09	2W LONG, MAR. 23, 1964, BAR. 21	2100 G.C.T.	WEATHER 01		VIS. 9	CLOUD TYPE 8, COVER 2			
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	22.82	35.12			24.10	382.8	0.	22.82	35.12	24.10	382.8	0.000
10.	22.83	35.12			24.09	383.4	10.	22.83	35.12	24.09	383.4	0.039
30.Δ	22.80	35.12			24.10	383.4	20.	22.82	35.12	24.10	383.6	0.078
50.Δ	22.76	35.12			24.12	382.3	30.	22.80	35.12	24.10	383.4	0.116
75.Δ	22.56	35.19			24.22	373.5	50.	22.76	35.13	24.12	382.3	0.193
102.	22.43	35.22			24.28	368.8	75.	22.56	35.19	24.22	373.5	0.289
125.	20.86	35.09			24.62	337.4	100.	22.47	35.22	24.27	369.7	0.382
151.	19.59	35.02			24.90	311.2	150.	19.63	35.02	24.89	312.0	0.554
177.	18.88	34.97			25.05	298.2	200.	17.67	34.81	25.23	281.5	0.704
193.	18.10	34.86			25.16	288.0	250.	14.48	34.46	25.69	238.5	0.835
224.	16.10	34.65			25.47	258.4	300.	12.36	34.26	25.97	212.1	0.948
251.	14.42	34.45			25.69	237.9	400.	9.02	34.09	26.42	169.3	1.141
280.	13.15	34.30			25.84	224.1	500.	6.56	34.06	26.76	136.9	1.295
304.	12.21	34.26			25.99	209.7	600.	5.37	34.17	27.00	114.1	1.422
405.	8.88	34.08			26.44	167.6	700.	4.78	34.29	27.16	99.3	1.530
506.	6.45	34.06			26.77	135.2	800.	4.45	34.38	27.27	89.2	1.625
606.	5.33	34.18			27.01	113.0	1000.	3.91	34.50	27.42	76.1	1.792
808.	4.44	34.39			27.28	88.6	1200.	3.42	34.56	27.51	67.4	1.936
1009.	3.89	34.50			27.42	75.6	1500.	2.83	34.60	27.60	59.1	2.130
1211.	3.40	34.56			27.52	67.0						
1510.	2.81	34.60			27.60	59.0						

CROMWELL		2, STATION		17, 23-32N LAT, 151- 4W LONG, MAR. 24, 1964, 1300 G.C.T.									
DRY BULB 20.7		WET BULB 19.9		WIND SPEED 16, DIR. 09		BAR. 19		WEATHER 18		VIS. 9		CLOUD TYPE 8, COVER 5	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	22.42	35.14			24.23	370.4	0.	22.42	35.14	24.23	370.4	0.000	
10.	22.45	35.17			24.24	369.5	10.	22.45	35.17	24.24	369.5	0.038	
30. Δ	22.44	35.18			24.25	369.2	20.	22.45	35.18	24.25	369.2	0.075	
50. Δ	22.40	35.18			24.26	368.9	30.	22.44	35.18	24.25	369.2	0.112	
75. Δ	22.28	35.18			24.30	366.6	50.	22.40	35.18	24.26	368.9	0.187	
99.	21.70	35.17			24.45	352.7	75.	22.28	35.18	24.30	366.6	0.279	
123.	20.07	35.03			24.79	321.5	100.	21.64	35.16	24.46	351.4	0.370	
147.	19.18	34.96			24.96	305.2	150.	19.04	34.95	24.99	303.0	0.534	
173.	17.95	34.83			25.17	285.9	200.	16.64	34.68	25.38	267.2	0.678	
187.	17.33	34.76			25.27	277.0	250.	13.41	34.32	25.81	226.7	0.803	
220.	15.42	34.55			25.55	250.8	300.	11.71	34.17	26.02	206.7	0.912	
247.	13.56	34.34			25.79	228.4	400.	8.70	34.06	26.45	166.4	1.100	
273.	12.49	34.23			25.92	216.4	500.	6.75	34.04	26.72	140.3	1.255	
297.	11.81	34.18			26.01	207.9	600.	5.75	34.15	26.93	120.8	1.387	
395.	8.82	34.06			26.43	168.0	700.	4.93	34.25	27.11	103.5	1.500	
495.	6.81	34.04			26.71	141.4	800.	4.33	34.36	27.26	89.5	1.598	
594.	5.81	34.14			26.92	121.9	1000.	3.80	34.51	27.44	73.4	1.763	
792.	4.36	34.35			27.25	90.4	1200.	3.34	34.58	27.54	64.6	1.902	
991.	3.82	34.51			27.44	73.9							
1190.	3.36	34.56			27.52	66.3							
1492.	2.79	34.59			27.60	59.4							

CROMWELL DRY BULB 22.4		2, STATION WET BULB 19.3		4N LAT, 150-57M LONG, MAR. 24, 1964, 2200 G.C.T. WIND SPEED 12, DIR. 13		BAR. 19		WEATHER 02		VIS. 9		CLOUD TYPE 8, COVER 4	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	22.68	34.91			23.98	394.1	0.	22.68	34.91	23.98	394.1	0.000	
10.	22.63	34.91			23.99	393.1	10.	22.63	34.91	23.99	393.1	0.040	
101.	22.58	35.05			24.11	385.1	20.	22.61	34.92	24.01	392.0	0.080	
124.	22.55	35.06			24.13	384.4	30.	22.59	34.94	24.02	390.9	0.119	
150.	22.21	35.12			24.27	371.9	50.	22.57	34.97	24.05	389.0	0.198	
174.	21.56	35.26			24.56	345.3	75.	22.56	35.01	24.08	386.9	0.295	
190.	20.58	35.11			24.71	331.1	100.	22.58	35.05	24.11	385.2	0.393	
222.	19.27	35.06			25.02	302.8	150.	22.21	35.12	24.27	371.9	0.583	
254.	17.29	34.75			25.27	279.0	200.	20.16	35.09	24.81	322.2	0.758	
282.	15.17	34.47			25.55	253.1	250.	17.57	34.80	25.24	282.0	0.911	
306.	12.94	34.28			25.87	222.2	300.	13.49	34.32	25.79	229.7	1.040	
407.	9.26	34.13			26.42	170.0	400.	9.35	34.12	26.40	171.9	1.242	
510.	6.86	34.12			26.77	136.4	500.	7.03	34.11	26.74	139.2	1.399	
611.	5.80	34.28			27.03	111.6	600.	5.88	34.26	27.01	114.0	1.527	
814.	4.76	34.42			27.26	90.3	700.	5.23	34.36	27.16	99.6	1.635	
1017.	4.05	34.52			27.42	76.2	800.	4.80	34.41	27.26	91.1	1.731	
1219.	3.58	34.55			27.49	69.9	1000.	4.10	34.51	27.41	77.1	1.902	
1401.	3.07	34.59			27.57	62.2	1200.	3.62	34.55	27.49	70.4	2.051	

FROM BT DATA

Table 2.-Continued

ORIGINAL DATA					DERIVED DATA					INTERPOLATED DATA				
CROMWELL DRY BULB 22.1		2, STATION WET BULB 19.8		19, 20-28N LAT, 151- WIND SPEED 11, DIR. 12		0W LONG, MAR. 25, 1964, BAR. 19		0800 G.C.T. WEATHER 18		VIS. 9		CLOUD TYPE 8, COVER 5		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0	23.19	34.51			23.53	436.9	0	23.19	34.51	23.53	436.9	0.000		
10	23.18	34.51			23.53	437.0	10	23.18	34.51	23.53	437.0	0.045		
48	22.61	34.94			24.02	391.8	20	23.06	34.61	23.64	427.1	0.088		
75	22.40	35.05			24.16	379.2	30	22.91	34.71	23.76	415.7	0.130		
100	22.30	35.11			24.24	373.1	50	22.59	34.95	24.03	390.5	0.212		
125	21.36	35.19			24.56	343.3	75	22.40	35.05	24.16	379.2	0.309		
150	20.03	35.11			24.86	315.7	100	22.30	35.11	24.24	373.1	0.403		
174	18.81	35.01			25.10	293.5	150	20.03	35.11	24.86	315.7	0.577		
190	17.95	34.89			25.22	282.2	200	17.36	34.80	25.29	275.4	0.776		
224	15.80	34.57			25.48	257.7	250	13.90	34.35	25.73	234.3	0.854		
249	13.97	34.36			25.72	235.2	300	11.07	34.17	26.14	195.4	0.963		
275	12.29	34.22			25.95	213.4	400	8.31	34.15	26.58	153.6	1.139		
300	11.07	34.17			26.14	195.4	500	6.99	34.22	26.83	130.7	1.202		
400	8.31	34.15			26.58	153.6	600	6.07	34.31	27.02	112.7	1.405		
500	6.99	34.22			26.83	130.7	700	5.29	34.37	27.17	99.2	1.512		
597	6.10	34.31			27.02	113.2	800	4.68	34.42	27.27	89.2	1.608		
800	4.68	34.42			27.27	89.2	1000	4.09	34.51	27.41	77.2	1.776		
999	4.09	34.51			27.41	77.2	1200	3.53	34.57	27.51	67.6	1.923		
1199	3.51	34.57			27.52	67.5	1500	2.87	34.61	27.61	58.9	2.115		
1503	2.86	34.61			27.61	58.8								

CROMWELL DRY BULB 22.5		2, STATION WET BULB 19.7		20, 19- ON LAT, 151- WIND SPEED 07, DIR. 15		0W LONG, MAR. 25, 1964, BAR. 16		0300 G.C.T. WEATHER 03		VIS. 8		CLOUD TYPE 4, COVER 6	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	23.73	34.40			23.29	459.9	0.	23.73	34.40	23.29	459.9	0.000	
10.	23.73	34.41			23.30	459.5	10.	23.73	34.41	23.30	459.5	0.047	
30. ^A	23.73	34.41			23.30	460.3	20.	23.73	34.41	23.30	459.8	0.093	
50. ^A	23.72	34.41			23.30	460.8	30.	23.73	34.41	23.30	460.3	0.139	
75. ^A	23.71	34.41			23.30	461.5	50.	23.72	34.41	23.30	460.8	0.232	
98.	23.71	34.41			23.30	462.3	75.	23.71	34.41	23.30	461.5	0.348	
121.	22.80	34.49			23.62	432.2	100.	23.73	34.42	23.30	462.6	0.465	
145.	17.28	34.50			25.03	293.4	150.	16.50	34.46	25.24	278.6	0.652	
170.	14.17	34.30			25.63	241.5	200.	11.92	34.23	26.03	203.5	0.773	
184.	12.98	34.25			25.84	222.0	250.	10.33	34.29	26.36	172.5	0.868	
216.	11.16	34.25			26.18	189.2	300.	9.51	34.38	26.57	153.5	0.950	
242.	10.57	34.31			26.33	175.2	400.	7.32	34.30	26.84	127.9	1.092	
268.	9.88	34.27			26.42	167.1	500.	7.06	34.44	26.99	115.3	1.215	
291.	9.76	34.38			26.53	157.5	600.	5.73	34.41	27.15	100.6	1.324	
346.	8.02	34.30			26.74	137.2	700.	4.44	34.40	27.28	87.0	1.419	
389.	7.47	34.31			26.83	129.1							
461.	6.84	34.32			26.93	120.6							
487.	6.93	34.41			26.98	115.6							
585.	6.09	34.43			27.11	104.0							
589.	5.92	34.42			27.13	102.6							
790.	4.93	34.51			27.32	85.6							

TEMPERATURE ERROR TERM AT 600. METERS IS 0.16
TEMPERATURE ERROR TERM AT 700. METERS IS 0.60

CROMWELL		2, STATION		21.17-30N LAT, 151-4W LONG, MAR. 26, 1964, 0300 G.C.T.									
DRY BULB 22.2		WET BULB 20.4		WIND SPEED 14, DIR. 15		BAR. 13		WEATHER 02		VIS. 8		CLOUD TYPE 5, COVER 6	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
1.	23.79	34.46			23.32	457.3	0.	23.79	34.46	23.32	457.2	0.000	
11.	23.63	34.45			23.36	453.9	10.	23.64	34.45	23.35	454.1	0.046	
30.	23.48	34.43			23.38	451.9	20.	23.54	34.44	23.37	452.5	0.092	
50.	23.42	34.42			23.39	451.7	30.	23.48	34.43	23.38	451.9	0.138	
75.	23.40	34.42			23.40	452.1	50.	23.42	34.42	23.39	451.7	0.229	
99.	23.29	34.42			23.43	449.9	75.	23.40	34.42	23.40	452.1	0.342	
124.	21.41	34.71			24.18	379.2	100.	23.23	34.43	23.46	447.6	0.456	
158.	18.73	34.68			24.86	314.9	150.	19.54	34.73	24.70	330.7	0.652	
173.	16.30	34.49			25.31	272.9	200.	14.02	34.35	25.70	235.6	0.795	
188.	14.98	34.42			25.55	250.0	250.	10.89	34.19	26.18	190.0	0.902	
220.	12.57	34.24			25.91	215.8	300.	9.20	34.13	26.63	167.0	0.992	
246.	10.97	34.17			26.15	192.5	400.	6.65	34.14	26.81	130.4	1.142	
272.	10.52	34.26			26.30	178.6	500.	6.41	34.37	27.02	111.7	1.264	
296.	9.36	34.14			26.41	168.8	600.	5.85	34.43	27.15	100.7	1.371	
395.	6.69	34.13			26.80	131.7	700.	5.28	34.48	27.25	91.5	1.469	
493.	6.44	34.36			27.01	112.7	800.	4.78	34.50	27.33	84.2	1.557	
590.	5.91	34.43			27.14	101.7	1000.	4.08	34.55	27.44	74.0	1.717	
787.	4.83	34.50			27.32	85.0	1200.	3.49	34.58	27.52	66.6	1.860	
984.	4.13	34.55			27.44	74.6							
1180.	3.55	34.57			27.51	67.8							
1477.	2.86	34.60			27.60	59.4							

TEMPERATURE ERROR TERM AT 150. METERS IS 0.11

FROM BT DATA

Table 2.--Continued

ORIGINAL DATA					DERIVED DATA		INTERPOLATED DATA					
CROMWELL DRY BULB 23.5		2, STATION WET BULB 21.1	22, 16- ON LAT, 150-59N WIND SPEED 14, DIR. 13	LONG. MAR. 26, 1964, 1200 G.C.T.			BAR. 14		WEATHER 00	VIS. 8	CLOUD TYPE	COVER
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0	24.07	34.36			23.16	472.3	0	24.07	34.36	23.16	472.3	0.000
10	24.08	34.37			23.16	472.3	10	24.08	34.37	23.16	472.3	0.048
48	24.01	34.38			23.19	471.0	20	24.08	34.38	23.17	472.3	0.096
75 ^Δ	23.82	34.38			23.25	466.7	30	24.07	34.38	23.17	472.1	0.143
100	21.49	34.67			24.13	383.3	50	24.04	34.37	23.18	472.3	0.238
123	19.28	34.84			24.85	315.6	75	23.82	34.38	23.25	466.7	0.357
148	18.12	34.80			25.11	291.3	100	21.49	34.67	24.13	383.3	0.464
175	15.73	34.53			25.47	257.6	150	17.99	34.79	25.13	289.3	0.633
189	13.93	34.35			25.72	233.5	200	12.88	34.29	25.89	217.3	0.761
220	11.53	34.28			26.14	193.7	250	10.41	34.30	26.35	173.6	0.859
246	10.50	34.29			26.33	175.5	300	9.88	34.45	26.56	154.4	0.942
275	10.07	34.36			26.46	163.7	400	8.00	34.44	26.86	127.3	1.084
299	9.90	34.45			26.56	154.8	500	7.39	34.51	27.00	115.1	1.207
397	8.02	34.44			26.85	127.7	600	6.20	34.47	27.13	102.8	1.317
496	7.44	34.51			26.99	115.7	700	5.49	34.48	27.23	93.9	1.416
597	6.23	34.47			27.13	103.1	800	5.04	34.51	27.30	87.0	1.508
796	5.06	34.51			27.30	87.3	1000	4.34	34.56	27.42	76.6	1.673
995	4.36	34.56			27.42	76.8	1200	3.74	34.58	27.50	69.3	1.821
1193	3.76	34.57			27.49	70.4						
1493	3.01	34.61			27.59	60.6						

CROMWELL 2, STATION 23, 14-28N LAT, 151- 0W LONG, MAR. 26, 1964, 2100 G.C.T.													
DRY BULB 24.3		WET BULB 21.8		WIND SPEED 13, DIR. 07		BAR. 15		WEATHER 01		VIS. 9		CLOUD TYPE 8, COVER 2	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	24.08	34.47			23.24	464.7	0.	24.08	34.47	23.24	464.7	0.000	
11.	23.97	34.47			23.27	462.0	10.	23.98	34.47	23.27	462.2	0.047	
30.Δ	23.90	34.47			23.29	460.7	20.	23.93	34.47	23.28	461.2	0.094	
50.Δ	23.84	34.48			23.32	459.1	30.	23.90	34.47	23.29	460.7	0.140	
75.Δ	23.82	34.48			23.32	459.5	50.	23.84	34.48	23.32	459.1	0.233	
100.	23.57	34.59			23.48	445.5	75.	23.82	34.48	23.32	459.5	0.348	
124.	20.47	34.93			24.60	338.9	100.	23.57	34.59	23.48	445.5	0.462	
149.	17.26	34.69			25.23	279.3	150.	17.12	34.67	25.26	277.2	0.645	
174.	13.94	34.38			25.74	231.1	200.	11.94	34.62	26.17	190.2	0.762	
190.	12.47	34.40			26.05	201.5	250.	11.15	34.62	26.47	162.4	0.851	
222.	11.37	34.50			26.34	174.7	300.	10.41	34.64	26.62	149.6	0.930	
249.	11.16	34.62			26.47	162.8	400.	9.02	34.59	26.81	132.3	1.072	
275.	10.74	34.65			26.57	153.8	500.	8.19	34.57	26.93	122.6	1.201	
299.	10.43	34.64			26.62	149.8	600.	7.21	34.54	27.05	111.8	1.319	
398.	9.04	34.59			26.81	132.5	700.	6.41	34.53	27.15	102.6	1.427	
498.	8.21	34.57			26.93	122.8	800.	5.75	34.53	27.23	94.9	1.527	
598.	7.23	34.54			27.05	112.0	1000.	4.75	34.54	27.36	83.3	1.708	
793.	5.79	34.53			27.23	95.3	1200.	4.06	34.57	27.46	74.3	1.867	
998.	4.76	34.54			27.36	83.4							
1198.	4.14	34.58			27.46	74.5							
1497.	3.29	34.60			27.56	64.8							

CROMWELL 2, STATION 24, 12-59N LAT, 151- 1W LONG, MAR. 27, 1964, 0500 G.C.T.													
DRY BULB 24.3		WET BULB 22.2		WIND SPEED 15, DIR. 07		BAR. 14		WEATHER 01		VIS. 9		CLOUD TYPE 8, COVER 3	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	24.64	34.38			23.00	487.1	0.	24.64	34.38	23.00	487.1	0.000	
10.	24.63	34.37			23.00	487.9	10.	24.63	34.37	23.00	487.9	0.050	
30.Δ	24.58	34.36			23.01	488.0	20.	24.66	34.36	22.99	489.6	0.099	
48.	23.84	34.36			23.23	467.7	30.	24.58	34.36	23.01	488.0	0.148	
75.	23.64	34.36			23.28	463.1	50.	23.86	34.35	23.21	469.3	0.245	
99.	20.76	34.99			24.57	341.1	75.	23.64	34.36	23.28	463.1	0.362	
123.	17.88	34.69			25.08	292.8	100.	20.64	34.99	24.60	338.3	0.463	
148.	15.22	34.46			25.53	251.0	150.	14.96	34.44	25.57	247.0	0.610	
174.	12.33	34.36			26.05	201.4	200.	11.41	34.60	26.41	167.3	0.715	
190.	11.56	34.54			26.33	174.5	250.	10.81	34.68	26.58	152.2	0.795	
221.	11.32	34.67			26.48	161.3	300.	10.35	34.68	26.66	145.5	0.870	
247.	10.85	34.68			26.57	152.9	400.	9.10	34.62	26.82	131.3	1.010	
274.	10.57	34.69			26.63	147.9	500.	8.15	34.58	26.94	121.2	1.137	
299.	10.36	34.68			26.66	145.6	600.	7.00	34.53	27.07	109.5	1.254	
399.	9.11	34.62			26.82	131.4	700.	6.14	34.52	27.18	99.6	1.360	
500.	8.15	34.58			26.94	121.2	800.	5.49	34.53	27.27	91.4	1.456	
598.	7.02	34.53			27.07	109.7	1000.	4.56	34.54	27.38	80.8	1.630	
796.	5.51	34.53			27.26	91.6	1200.	3.87	34.56	27.48	72.2	1.785	
996.	4.57	34.54			27.38	81.0							
1195.	3.93	34.57			27.47	72.6							
1496.	3.09	34.60			27.58	62.3							

ΔFROM BT DATA

Table 2.--Continued

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA				
CROMWELL 2, STATION 25, 11-30N LAT, 151-0W LONG, MAR. 27, 1964, 1400 G.C.T. DRY BULB 25.3 MET BULB 22.7 WIND SPEED 18, DIR. 08 BAR. 12 WEATHER 03 VIS. 8 CLOUD TYPE 6, COVER 7												
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0	25.90	34.71			22.87	500.1	0	25.90	34.71	22.87	500.1	0.000
10	25.91	34.71			22.86	500.8	10	25.91	34.71	22.86	500.8	0.051
30. Δ	25.92	34.70			22.85	502.6	20	25.92	34.70	22.86	501.8	0.101
50.	25.92	34.71			22.86	502.7	30	25.92	34.70	22.85	502.6	0.152
75. Δ	24.45	34.75			23.35	456.5	50	25.92	34.71	22.86	502.7	0.253
101	15.80	34.42			25.37	264.9	75	24.40	34.75	23.35	456.5	0.374
125	12.62	34.31			25.95	209.2	100	16.15	34.43	25.30	271.4	0.466
150	11.95	34.75			26.42	165.1	150	11.95	34.75	26.42	165.1	0.576
176	11.57	34.76			26.50	158.1	200	11.09	34.76	26.59	150.4	0.655
191	11.23	34.76			26.57	152.4	250	10.56	34.75	26.68	142.8	0.729
223	10.83	34.75			26.63	146.9	300	10.03	34.72	26.75	137.1	0.800
250	10.56	34.75			26.68	142.8	400	9.29	34.66	26.83	131.3	0.935
276	10.28	34.73			26.71	140.1	500	8.49	34.64	26.94	122.0	1.063
300	10.03	34.72			26.75	137.1	600	7.54	34.59	27.04	112.9	1.182
401	9.28	34.66			26.83	131.3	700	6.67	34.57	27.14	103.5	1.291
501	8.48	34.64			26.94	121.9	800	5.91	34.56	27.24	94.9	1.391
601	7.53	34.59			27.04	112.8	1000	4.82	34.55	27.36	83.5	1.572
799	5.92	34.56			27.24	95.0	1200	4.05	34.57	27.46	74.1	1.731
998	4.83	34.55			27.36	83.6						
1198	4.11	34.58			27.46	74.1						
1497	3.28	34.61			27.57	63.9						

CROMWELL 2, STATION 26, 10-3N LAT, 147-58W LONG, MAR. 29, 1964, 0000 G.C.T. DRY BULB 26.4 MET BULB 23.6 WIND SPEED 15, DIR. 11 BAR. 11 WEATHER 02 VIS. 8 CLOUD TYPE 8, COVER 7														
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	26.69	34.83			22.71	515.1	0.	26.69	34.83	22.71	515.1	0.000		
11.	26.67	34.84			22.72	514.3	10.	26.67	34.84	22.72	514.4	0.052		
30. Δ	26.58	34.85			22.76	511.6	20.	26.63	34.85	22.74	513.1	0.104		
50. Δ	26.44	34.85			22.80	508.2	30.	26.58	34.85	22.76	511.6	0.156		
75. Δ	26.20	34.85			22.88	502.0	50.	26.44	34.85	22.80	508.2	0.258		
102.	13.98	34.41			25.75	227.7	75.	26.20	34.85	22.88	502.0	0.386		
124.	12.80	34.60			26.14	191.4	100.	14.89	34.44	25.58	244.3	0.480		
136.	12.04	34.70			26.37	170.1	150.	11.75	34.76	26.47	161.0	0.502		
146.	11.84	34.75			26.44	163.0	200.	10.99	34.76	26.61	148.7	0.660		
152.	11.71	34.76			26.48	160.1	250.	10.29	34.72	26.70	140.3	0.733		
178.	11.25	34.76			26.56	152.5	300.	9.87	34.70	26.76	135.8	0.802		
194.	11.08	34.76			26.59	149.8	400.	9.25	34.67	26.84	129.9	0.936		
226.	10.57	34.73			26.66	143.9	500.	8.38	34.61	26.93	122.2	1.064		
253.	10.26	34.72			26.71	140.0	600.	7.34	34.57	27.05	111.3	1.182		
281.	10.06	34.71			26.73	138.0	700.	6.47	34.55	27.16	101.7	1.269		
304.	9.83	34.70			26.77	135.3	800.	5.75	34.55	27.25	93.5	1.388		
406.	9.22	34.67			26.84	129.6	1000.	4.68	34.56	27.38	81.0	1.564		
508.	8.30	34.61			26.94	121.4	1200.	3.89	34.59	27.49	70.9	1.718		
608.	7.26	34.57			27.06	110.4	1500.	3.18	34.61	27.58	62.8	1.922		
810.	5.69	34.55			27.26	92.7								
1013.	4.62	34.56			27.39	80.3								
1214.	3.85	34.59			27.50	70.3								
1517.	3.16	34.61			27.58	62.6								

TEMPERATURE ERROR TERM AT 100. METERS IS 0.28

CROMWELL 2, STATION 27, 11-30N LAT, 147-58W LONG, MAR. 29, 1964, 1100 G.C.T. DRY BULB 25.3 MET BULB 21.9 WIND SPEED 20, DIR. 07 BAR. 13 WEATHER 03 VIS. 9 CLOUD TYPE , COVER														
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	26.01	34.72			22.84	502.6	0.	26.01	34.72	22.84	502.6	0.000		
11.	26.03	34.72			22.83	503.7	10.	26.03	34.72	22.83	503.6	0.051		
30. Δ	26.04	34.72			22.83	504.7	20.	26.04	34.72	22.83	504.2	0.102		
49.	26.05	34.72			22.83	505.8	30.	26.04	34.72	22.83	504.7	0.153		
75. Δ	24.80	34.77			23.25	466.5	50.	26.06	34.72	22.83	506.0	0.255		
100.	19.20	34.81			24.84	315.0	75.	24.80	34.77	23.25	466.5	0.377		
123.	15.25	34.44			25.50	252.3	100.	19.20	34.81	24.84	315.0	0.476		
149.	12.67	34.66			26.25	181.4	150.	12.39	34.66	26.27	180.1	0.600		
173.	11.31	34.63			26.45	163.0	200.	11.13	34.73	26.56	153.0	0.684		
187.	11.28	34.71			26.52	156.9	250.	10.28	34.71	26.70	141.1	0.758		
221.	10.77	34.72			26.62	148.0	300.	9.92	34.70	26.75	136.9	0.828		
247.	10.31	34.71			26.69	141.4	400.	9.01	34.64	26.85	128.5	0.962		
273.	10.10	34.70			26.72	139.2	500.	7.97	34.59	26.98	117.8	1.087		
298.	9.94	34.70			26.75	137.0	600.	6.99	34.56	27.09	107.2	1.200		
396.	9.05	34.64			26.85	128.9	700.	6.16	34.54	27.19	98.6	1.304		
496.	8.01	34.59			26.97	118.3	800.	5.49	34.53	27.27	91.4	1.400		
594.	7.04	34.56			27.09	107.8	1000.	4.55	34.56	27.40	79.3	1.573		
792.	5.54	34.53			27.26	92.0	1200.	3.83	34.58	27.49	70.6	1.725		
989.	4.60	34.56			27.39	79.8								
1187.	3.68	34.57			27.48	71.9								
1483.	3.11	34.62			27.59	61.0								

Δ FROM ST DATA

Table 2.--Continued

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA				
CROMWELL DRY BULB 25.5		2, STATION WET BULB 21.8		28, 13- 3N LAT, 147-58N LONG, MAR. 29, 1964, 2000 G.C.T.	WIND SPEED 18, DIR. 07	BAR. 15	WEATHER 03	VIS. 9	CLOUD TYPE 8, COVER 4			
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	24.53	34.35**			23.01	486.1	0.	24.53	34.35	23.01	486.1	0.000
10.	24.54	34.35**			23.01	486.8	10.	24.54	34.35	23.01	486.8	0.049
30.	24.46	34.34			23.03	486.0	20.	24.52	34.35	23.01	486.8	0.099
50.	24.25	34.33			23.08	481.5	30.	24.46	34.34	23.03	486.0	0.148
75.Δ	23.36	34.46			23.44	448.1	50.	24.25	34.33	23.08	481.5	0.245
100.	19.80	34.72			24.62	336.3	75.	23.36	34.46	23.44	448.1	0.362
124.	17.31	34.64			25.18	283.3	100.	19.80	34.72	24.62	336.3	0.461
149.	14.12	34.37			25.69	234.8	150.	14.02	34.37	25.71	233.0	0.604
171.	12.35	34.36			26.04	201.7	200.	10.75	34.33	26.32	176.0	0.707
190.	11.19	34.32			26.23	184.0	250.	9.91	34.45	26.56	154.0	0.791
220.	10.16	34.37			26.45	163.3	300.	9.63	34.56	26.69	142.2	0.865
248.	9.90	34.44			26.55	154.5	400.	8.62	34.56	26.85	128.1	1.002
276.	9.94	34.54			26.62	148.3	500.	7.73	34.56	26.99	116.4	1.125
299.	9.64	34.56			26.69	142.4	600.	6.73	34.53	27.11	105.7	1.237
397.	8.65	34.56			26.85	128.5	700.	5.93	34.52	27.21	96.5	1.339
496.	7.77	34.56			26.98	116.9	800.	5.30	34.53	27.29	88.9	1.433
594.	6.78	34.53			27.10	106.3	1000.	4.39	34.55	27.41	77.8	1.602
790.	5.36	34.53			27.28	89.6	1200.	3.70	34.58	27.50	69.2	1.751
985.	4.45	34.55			27.40	78.6						
1181.	3.78	34.58			27.50	69.9						
1480.	3.04	34.61			27.59	60.9						

CROMWELL DRY BULB 23.5		2, STATION WET BULB 20.5		29, 14-30N LAT, 147-58W LONG, MAR. 30, 1964, 0500 G.C.T.		WIND SPEED 20, DIR. 08		BAR. 15		WEATHER 02		VIS. 8		CLOUD TYPE 8, COVER 5		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.				
0.	24.31	34.32			23.06	482.0	0.	24.31	34.32	23.06	482.0	0.000				
9.	24.33	34.32			23.05	482.9	10.	24.33	34.32	23.05	483.0	0.049				
30.Δ	24.32	34.31			23.05	484.2	20.	24.33	34.31	23.05	483.7	0.098				
48.	24.31	34.31			23.05	484.6	30.	24.32	34.31	23.05	484.2	0.147				
75.Δ	24.08	34.31			23.12	479.1	50.	24.30	34.31	23.05	484.5	0.244				
98.	23.58	34.34			23.29	463.7	75.	24.08	34.31	23.12	479.1	0.365				
122.	18.00	34.45			24.87	313.0	100.	23.19	34.35	23.41	452.0	0.483				
146.	13.67	34.27			25.71	233.0	150.	13.33	34.27	25.78	226.1	0.654				
172.	12.28	34.35			26.05	201.1	200.	11.22	34.41	26.30	178.0	0.755				
187.	11.71	34.39			26.19	188.1	250.	9.91	34.49	26.59	150.9	0.838				
219.	10.59	34.44			26.43	165.4	300.	9.30	34.52	26.71	139.8	0.912				
245.	9.98	34.49			26.58	152.0	400.	7.85	34.48	26.91	122.4	1.044				
271.	9.66	34.49			26.63	147.3	500.	6.84	34.47	27.04	110.2	1.161				
296.	9.36	34.52			26.70	140.7	600.	5.99	34.47	27.16	99.9	1.268				
394.	7.92	34.48			26.90	123.2	700.	5.35	34.49	27.25	91.5	1.364				
493.	6.91	34.47			27.03	111.0	800.	4.85	34.51	27.33	84.5	1.453				
592.	6.05	34.47			27.15	100.6	1000.	4.05	34.55	27.45	73.7	1.613				
790.	4.90	34.51			27.32	85.2	1200.	3.50	34.58	27.52	66.8	1.756				
988.	4.09	34.55			27.44	74.2										
1185.	3.58	34.57			27.51	68.2										
1429.	3.02	34.60			27.59	61.0										

CROMWELL		2, STATION		30, 15-57N LAT, 148- 5W LONG, MAR. 30, 1964, 1400 G.C.T.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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ΔFROM BT DATA
**EXTRAPOLATED VALUE

Table 2.--Continued

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA				
CROWMELL		2, STATION		31, 17-30N LAT, 147-58W LONG, MAR. 31, 1964, 0200 G.C.T.	WIND SPEED 25, DIR. 08		BAR. 17	WEATHER 01	VIS. 8	CLOUD TYPE 8, COVER 6		
DRY BULB 23.4		WET BULB 19.1										
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	23.29	34.45			23.45	444.0	0.	23.29	34.45	23.45	444.0	0.000
8.	23.30	34.45			23.45	444.6	10.	23.30	34.45	23.45	444.8	0.045
46.	23.26	34.44			23.46	445.7	20.	23.30	34.45	23.45	445.3	0.090
75.Δ	23.20	34.46			23.49	443.7	30.	23.29	34.44	23.45	445.7	0.135
99.	23.02	34.47			23.55	438.9	50.	23.26	34.44	23.46	445.6	0.225
124.	20.58	34.74			24.43	355.5	75.	23.20	34.46	23.49	443.7	0.337
149.	19.07	34.85			24.91	310.6	100.	22.94	34.48	23.58	435.9	0.448
173.	17.32	34.71			25.23	280.0	150.	19.01	34.85	24.92	309.2	0.635
189.	15.61	34.48			25.45	259.0	200.	14.45	34.36	25.62	243.4	0.775
222.	12.32	34.22			25.94	212.6	250.	10.25	34.17	26.28	180.1	0.831
247.	10.37	34.18			26.27	181.4	300.	10.12	34.43	26.50	160.3	0.967
273.	9.84	34.17			26.35	173.9	400.	9.07	34.52	26.75	138.2	1.118
297.	10.12	34.41			26.49	161.4	500.	7.50	34.47	26.95	119.9	1.248
397.	9.12	34.52			26.74	138.9	600.	6.58	34.46	27.07	108.6	1.363
486.	7.67	34.47			26.93	121.8	700.	5.92	34.48	27.17	99.5	1.469
594.	6.62	34.46			27.07	109.2	800.	5.42	34.51	27.26	91.9	1.565
791.	5.47	34.51			27.25	92.5	1000.	4.51	34.54	27.39	80.1	1.739
990.	4.55	34.54			27.38	80.6	1200.	3.83	34.58	27.49	70.9	1.892
1190.	3.89	34.58			27.49	71.3						
1429.	3.22	34.60			27.57	63.4						

CROWMELL		2, STATION		32, 19-3N LAT, 147-57W LONG, MAR. 31, 1964, 1200 G.C.T.	WIND SPEED 26, DIR. 07		BAR. 21	WEATHER 00	VIS. 8	CLOUD TYPE , COVER			
DRY BULB 20.9		WET BULB 17.1											
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	22.70	34.79			23.88	403.3	0.	22.70	34.79	23.88	403.3	0.000	
9.	22.72	34.80			23.88	403.5	10.	22.72	34.80	23.88	403.6	0.041	
47.	22.72	34.79			23.88	405.6	20.	22.73	34.79	23.88	404.6	0.032	
99.	22.58	34.98			24.06	390.1	30.	22.73	34.79	23.87	405.2	0.123	
120.	22.51	35.06			24.14	383.2	50.	22.71	34.80	23.88	405.1	0.204	
144.	21.60	35.14			24.46	353.9	75.	22.66	34.88	23.96	398.7	0.305	
171.	20.06	35.08			24.83	319.3	100.	22.58	34.98	24.06	390.0	0.405	
185.	19.40	35.02			24.95	307.6	150.	21.27	35.14	24.54	345.6	0.590	
216.	17.68	34.81			25.22	282.5	200.	18.71	34.95	25.07	296.5	0.752	
240.	15.04	34.61			25.53	253.5	250.	14.28	34.31	25.62	244.9	0.838	
268.	13.10	34.22			25.79	228.7	300.	11.07	34.23	26.18	191.3	0.998	
292.	11.42	34.22			26.11	197.8	400.	8.81	34.32	26.64	148.7	1.170	
390.	9.01	34.32			26.60	151.7	500.	7.22	34.32	26.88	126.3	1.309	
488.	7.38	34.32			26.85	128.7	600.	6.18	34.37	27.05	110.0	1.428	
595.	6.29	34.36			27.03	111.9	700.	5.56	34.41	27.17	99.7	1.534	
780.	5.24	34.45			27.23	93.8	800.	5.15	34.46	27.25	92.5	1.631	
976.	4.48	34.50			27.36	82.6	1000.	4.39	34.50	27.37	81.4	1.807	
1171.	3.80	34.53			27.45	73.7	1200.	3.73	34.54	27.47	72.3	1.963	
1468.	3.04	34.58			27.57	63.0							

CROWMELL		2, STATION		33, 20-26N LAT, 147-56W LONG, MAR. 31, 1964, 2000 G.C.T.	WIND SPEED 20, DIR. 07		BAR. 23	WEATHER 02	VIS. 8	CLOUD TYPE 8, COVER 7			
DRY BULB 21.8		WET BULB 17.5											
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
1.	22.19	35.08			24.25	368.6	0.	22.19	35.08	24.25	368.6	0.000	
10.	22.20	35.09			24.25	368.5	10.	22.20	35.09	24.25	368.5	0.038	
97.	22.18	35.10			24.26	370.5	20.	22.21	35.09	24.25	369.3	0.075	
121.	22.10	35.14			24.32	366.4	30.	22.22	35.09	24.24	369.9	0.112	
146.	21.78	35.15			24.41	358.0	50.	22.23	35.09	24.24	370.8	0.187	
171.	20.10	35.08			24.82	320.4	75.	22.21	35.09	24.25	371.0	0.280	
185.	19.79	35.11			24.92	310.9	100.	22.18	35.11	24.27	370.2	0.373	
217.	18.04	34.84			25.16	288.8	150.	21.51	35.14	24.48	352.0	0.555	
243.	15.74	34.52			25.46	260.6	200.	19.13	35.02	25.02	301.5	0.720	
268.	13.86	34.29			25.69	238.6	250.	15.18	34.45	25.52	254.1	0.860	
292.	12.29	34.14			25.89	219.7	300.	11.91	34.12	25.95	214.0	0.978	
389.	9.10	34.17			26.47	164.2	400.	8.80	34.17	26.52	160.0	1.167	
487.	6.92	34.14			26.77	135.4	500.	6.74	34.14	26.80	132.8	1.315	
584.	5.89	34.20			26.96	118.4	600.	5.78	34.22	26.98	116.0	1.440	
779.	4.96	34.40			27.23	93.9	700.	5.24	34.32	27.13	102.6	1.551	
975.	4.18	34.50			27.39	78.8	800.	4.87	34.41	27.25	91.9	1.649	
1170.	3.68	34.54			27.47	71.5	1000.	4.11	34.51	27.40	77.7	1.821	
1468.	2.93	34.58			27.58	61.6	1200.	3.54	34.56	27.50	68.9	1.969	

FROM BT DATA

Table 2.--Continued

ORIGINAL DATA					DERIVED DATA					INTERPOLATED DATA				
CROMWELL DRY BULB 20.8		2, STATION WET BULB	34, 22- 17.8	ON LAT, 147-58W LONG, APR. WIND SPEED 20, DIR. 07	1, 1964, 0600 G.C.T. BAR. 23	WEATHER 01	VIS. 8	CLOUD TYPE 8, COVER 5						
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	22.55	34.92			24.02	389.8	0.	22.55	34.92	24.02	389.8	0.000		
9.	22.55	34.93			24.03	389.5	10.	22.55	34.93	24.03	389.3	0.040		
30. ^Δ	22.55	34.98			24.07	386.7	20.	22.55	34.96	24.05	388.0	0.079		
50. ^Δ	22.54	35.00			24.09	385.7	30.	22.55	34.98	24.07	386.7	0.118		
75. ^Δ	22.53	35.04			24.12	383.5	50.	22.54	35.00	24.09	385.7	0.196		
94.	22.53	35.08			24.15	381.3	75.	22.53	35.04	24.12	383.5	0.293		
116.	21.85	35.11			24.36	361.7	100.	22.40	35.09	24.19	377.4	0.388		
140.	20.63	35.13			24.71	329.2	150.	20.38	35.13	24.78	323.4	0.565		
168.	19.86	35.08			24.88	314.2	200.	18.27	34.89	25.14	289.9	0.720		
181.	19.12	35.00			25.01	302.0	250.	15.43	34.51	25.51	255.1	0.857		
211.	17.75	34.82			25.22	282.2	300.	12.62	34.26	25.92	217.2	0.976		
234.	16.22	34.61			25.42	264.3	400.	8.59	34.21	26.58	153.6	1.163		
262.	14.87	34.44			25.59	248.3	500.	7.86	34.36	26.82	132.7	1.308		
286.	13.47	34.31			25.78	229.8	600.	6.73	34.39	27.00	115.8	1.433		
380.	8.90	34.18			26.51	160.1	700.	5.86	34.44	27.15	102.1	1.543		
477.	8.12	34.35			26.77	137.3	800.	5.19	34.47	27.25	92.1	1.641		
571.	7.02	34.38			26.95	120.4	1000.	4.25	34.50	27.39	79.8	1.815		
560.	5.44	34.46			27.22	95.5	1200.	3.58	34.54	27.49	70.3	1.967		
951.	4.44	34.49			27.36	82.6								
1142.	3.80	34.54			27.46	72.7								
1429.	3.09	34.58			27.56	63.3								

TEMPERATURE ERROR TERM AT 400. METERS IS 0.12

CROMWELL DRY BULB 20.8		2, STATION WET BULB	35, 23-30N 16.4	ON LAT, 147-59W LONG, APR. WIND SPEED 20, DIR. 09	1, 1964, 1500 G.C.T. BAR. 24	WEATHER 00	VIS. 8	CLOUD TYPE , COVER						
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	22.00	35.16			24.36	357.7	0.	22.00	35.16	24.36	357.7	0.000		
8.	22.02	35.17			24.36	357.8	10.	22.02	35.17	24.36	357.9	0.036		
47.	22.03	35.16			24.35	360.3	20.	22.03	35.17	24.36	358.5	0.072		
75. ^Δ	22.03	35.17			24.36	360.6	30.	22.04	35.17	24.36	359.2	0.108		
95.	21.43	35.29			24.62	336.8	50.	22.05	35.16	24.34	361.3	0.181		
117.	21.29	35.30			24.66	333.2	75.	22.03	35.17	24.36	360.6	0.272		
143.	21.06	35.29			24.72	328.9	100.	21.38	35.30	24.64	334.9	0.359		
168.	20.48	35.32			24.90	312.6	150.	20.95	35.30	24.76	325.2	0.526		
185.*	19.68	35.25			25.06	298.0	200.	18.77	35.17	25.23	281.7	0.679		
213.	17.99	35.10			25.37	268.7	250.	16.64	34.91	25.55	252.6	0.813		
251.*	16.60	34.90			25.55	252.3	300.	10.17	34.06	26.21	187.8	0.924		
264.	15.70	34.76			25.65	242.9	400.	7.73	34.03	26.57	153.7	1.097		
272.*	14.26	34.48			25.75	233.0	500.	6.00	34.05	26.83	129.5	1.240		
297.	10.39	34.08			26.19	190.2	600.	4.95	34.15	27.03	110.7	1.361		
372.	8.36	34.04			26.49	161.9	700.	4.48	34.28	27.18	96.4	1.466		
446.	6.84	34.03			26.70	141.9	800.	4.28	34.40	27.30	86.1	1.558		
595.	4.98	34.14			27.02	111.5	1000.	3.88	34.52	27.44	73.8	1.720		
747.	4.39	34.34			27.24	91.1	1200.	3.44	34.54	27.50	68.8	1.864		
900.	4.12	34.48			27.38	78.9								
1131.	3.57	34.54			27.49	69.9								
951.	3.44**	34.54**			27.50	68.8								

CROMWELL DRY BULB 20.2		2, STATION WET BULB	36, 25- 17.8	ON LAT, 148- W LONG, APR. WIND SPEED 21, DIR. 07	2, 1964, 0100 G.C.T. BAR. 25	WEATHER 02	VIS. 8	CLOUD TYPE 6, COVER 7						
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	21.91	35.07			24.32	361.8	0.	21.91	35.07	24.32	361.8	0.000		
10.	21.91	35.07			24.32	362.2	10.	21.91	35.07	24.32	362.2	0.037		
49.	21.70	35.16			24.44	351.6	20.	21.87	35.09	24.34	360.4	0.073		
102.	21.42	35.27			24.60	338.2	30.	21.82	35.11	24.37	357.9	0.110		
125.	21.17	35.31			24.70	329.6	50.	21.70	35.16	24.45	351.4	0.181		
150.	19.73	35.12			24.94	307.4	75.	21.59	35.22	24.52	345.5	0.269		
175.	18.28	34.92			25.16	287.3	100.	21.43	35.27	24.60	338.8	0.355		
191.	17.66	34.82			25.24	280.5	150.	19.73	35.12	24.94	307.4	0.518		
223.	15.17	34.46			25.54	252.1	200.	17.02	34.72	25.32	273.0	0.664		
251.	13.33	34.24			25.76	231.3	250.	13.39	34.25	25.75	232.0	0.791		
278.	11.65	34.10			25.98	210.4	300.	10.85	34.09	26.11	197.5	0.900		
301.	10.82	34.09			26.12	196.9	400.	8.62	34.04	26.45	166.4	1.083		
401.	8.60	34.04			26.45	166.1	500.	6.10	34.06	26.82	130.6	1.233		
502.	6.06	34.06			26.82	129.9	600.	5.31	34.14	26.98	115.8	1.358		
603.	5.30	34.14			26.98	115.5	700.	4.76	34.25	27.13	101.9	1.468		
803.	4.34	34.36			27.26	89.5	800.	4.35	34.36	27.26	89.9	1.564		
1003.	3.86	34.49			27.42	76.0	1000.	3.87	34.49	27.42	76.1	1.732		
1204.	3.48	34.54			27.49	69.3	1200.	3.49	34.54	27.49	69.4	1.880		
1505.	2.84	34.58			27.59	60.8	1500.	2.85	34.58	27.59	60.9	2.078		

^ΔFROM BT DATA
 *INTERPOLATED VALUE
 **EXTRAPOLATED VALUE

Table 2.--Continued

ORIGINAL DATA					DERIVED DATA					INTERPOLATED DATA				
CROMWELL DRY BULB 20.2	2, STATION WET BULB 16.8	37, 26-30N LAT, 148- W LONG, APR. 19, DIR. 10	OW LONG, APR. 2, 1964, 1000 G.C.T.	BAR. 27	WEATHER 02	VIS. 8	CLOUD TYPE	COVER						
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.		
1.	21.10	35.33			24.74	321.8	0.	21.10	35.33	24.74	321.7	0.000		
10.	21.10	35.32			24.73	322.8	10.	21.10	35.32	24.73	322.8	0.033		
98.	21.13	35.34			24.74	325.4	20.	21.10	35.32	24.73	323.2	0.065		
121.	21.12	35.32			24.72	327.4	30.	21.11	35.32	24.73	323.6	0.098		
141.	20.85	35.28			24.77	324.0	50.	21.12	35.33	24.73	324.3	0.163		
170.	20.47	35.29			24.88	314.6	75.	21.12	35.33	24.73	324.9	0.245		
185.	19.55	35.10			24.97	305.6	100.	21.14	35.34	24.73	325.7	0.327		
218.	17.60	34.81			25.24	280.7	150.	20.83	35.31	24.79	322.0	0.490		
243.	16.03	34.62			25.47	259.6	200.	18.67	34.95	25.09	294.9	0.646		
268.	14.55	34.44			25.66	241.8	250.	15.61	34.57	25.52	254.5	0.784		
292.	13.14	34.29			25.83	225.0	300.	12.80	34.26	25.88	220.4	0.904		
389.	10.10	34.16			26.30	181.3	400.	9.78	34.14	26.34	177.5	1.105		
437.	7.59	34.03			26.59	153.1	500.	7.34	34.02	26.62	150.3	1.270		
583.	6.08	34.02			26.79	134.2	600.	5.89	34.04	26.83	130.6	1.412		
768.	4.60	34.27			27.16	99.0	700.	4.99	34.16	27.03	111.1	1.534		
970.	3.91	34.46			27.39	78.5	800.	4.45	34.31	27.21	94.8	1.638		
1164.	3.47	34.53			27.49	69.7	1000.	3.83	34.48	27.41	76.7	1.812		
1455.	2.92	34.58			27.58	61.4	1200.	3.36	34.56	27.52	66.6	1.957		

CROMWELL DRY BULB 22.0	2, STATION WET BULB 19.0	38, 25-4N LAT, 150-57W LONG, APR. 3, 1964, 0400 G.C.T.	BAR. 23	WEATHER 01	VIS. 9	CLOUD TYPE 8, COVER 4								
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.		
10.	22.28	35.21			24.32	362.0	10.	22.28	35.21	24.32	362.0	0.037		
30.Δ	22.27	35.22			24.33	361.8	20.	22.31	35.21	24.31	363.0	0.073		
50.	21.78	35.25			24.49	347.2	30.	22.27	35.22	24.33	361.8	0.110		
75.Δ	21.46	35.25			24.58	339.7	50.	21.78	35.25	24.49	347.2	0.181		
103.	20.80	35.26			24.77	322.8	75.	21.46	35.25	24.58	339.7	0.268		
126.	20.66	35.32			24.85	315.7	100.	20.87	35.26	24.75	324.6	0.352		
153.	19.79	35.16			24.96	306.1	150.	19.93	35.19	24.94	307.6	0.511		
179.	18.00	34.88			25.20	283.7	200.	16.41	34.65	25.40	264.8	0.655		
194.	16.78	34.70			25.35	269.0	250.	13.58	34.32	25.77	230.4	0.780		
227.	14.96	34.46			25.58	247.8	300.	11.67	34.18	26.04	204.8	0.890		
254.	13.36	34.30			25.80	227.6	400.	8.83	34.09	26.46	165.9	1.077		
283.	12.27	34.24			25.97	211.7	500.	6.53	34.08	26.78	134.7	1.228		
307.	11.36	34.15			26.07	202.2	600.	5.34	34.13	26.97	116.8	1.355		
409.	8.64	34.10			26.49	162.5	700.	4.67	34.22	27.12	102.6	1.466		
511.	6.32	34.08			26.81	132.0	800.	4.22	34.32	27.25	90.7	1.564		
612.	5.26	34.14			26.99	115.1	1000.	3.71	34.49	27.43	74.2	1.731		
815.	4.17	34.34			27.27	89.1	1200.	3.29	34.54	27.51	67.2	1.874		
1018.	3.68	34.50			27.44	73.2	1500.	2.77	34.58	27.59	59.8	2.067		
1221.	3.25	34.54			27.52	66.7								
1523.	2.74	34.58			27.60	59.7								

CROMWELL DRY BULB 23.0	2, STATION WET BULB 19.8	39, 24-59N LAT, 154-1W LONG, APR. 3, 1964, 2000 G.C.T.	BAR. 23	WEATHER 02	VIS. 9	CLOUD TYPE 8, COVER 3								
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.		
1.	22.52	35.21			24.25	368.1	0.	22.52	35.21	24.25	368.1	0.000		
11.	22.56	35.20			24.23	370.3	10.	22.56	35.20	24.23	370.2	0.038		
50.	22.43	35.20			24.27	368.3	20.	22.57	35.19	24.22	371.3	0.075		
76.	22.11	35.24			24.35	357.8	30.	22.55	35.19	24.23	371.3	0.112		
101.	21.40	35.17			24.53	344.9	50.	22.43	35.20	24.27	368.3	0.137		
126.	20.46	35.12			24.75	325.0	75.	22.13	35.24	24.38	358.3	0.278		
152.	19.56	35.04			24.93	309.0	100.	21.43	35.17	24.53	345.5	0.367		
177.	18.59	34.95			25.11	292.6	150.	19.63	35.05	24.91	310.2	0.532		
192.	17.90	34.88			25.22	281.8	200.	17.52	34.84	25.28	276.4	0.690		
225.	16.28	34.68			25.46	260.3	250.	14.96	34.51	25.62	244.6	0.811		
252.	14.85	34.50			25.64	243.2	300.	12.34	34.24	25.95	213.6	0.927		
278.	13.10	34.32			25.87	221.6	400.	9.41	34.14	26.40	171.6	1.121		
303.	12.26	34.23			25.96	212.8	500.	7.25	34.07	26.67	145.3	1.281		
403.	9.33	34.14			26.41	170.4	600.	5.44	34.08	26.91	121.9	1.416		
503.	7.19	34.07			26.68	144.7	700.	4.61	34.27	27.16	98.7	1.528		
604.	5.38	34.08			26.92	121.0	800.	4.29	34.48	27.36	80.0	1.618		
804.	4.29	34.49			27.37	79.3	1000.	3.86	34.54	27.46	72.1	1.772		
1004.	3.85	34.54			27.46	72.2	1200.	3.40	34.54	27.50	68.3	1.914		
1204.	3.39	34.54			27.50	68.3								
1451.	2.86	34.58			27.58	60.7								

TEMPERATURE ERROR TERM AT 700. METERS IS 0.11

Δ FROM BT DATA

Table 2.--Continued

ORIGINAL DATA					DERIVED DATA					INTERPOLATED DATA				
CROMWELL DRY BULB 23.4		2, STATION WET BULB 20.3	40, 24-57N LAT, 157- 5W LONG, APR.	4, 1964, 1400 G.C.T.	BAK. 19	WEATHER 00	VIS. 9	CLOUD TYPE		COVER				
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	23.07	35.15			24.05	387.4	0.	23.07	35.15	24.05	387.4	0.000		
10.	23.09	35.16			24.05	387.7	10.	23.09	35.16	24.05	387.7	0.040		
49.	22.98	35.17			24.09	385.4	20.	23.11	35.16	24.05	388.3	0.079		
103.	21.71	34.24			24.00	348.1	30.	23.09	35.17	24.05	388.1	0.118		
125.	20.70	35.16			24.72	328.2	50.	22.97	35.17	24.09	385.0	0.136		
150.	19.07	35.00			25.02	299.8	75.	22.56	35.22	24.25	371.0	0.291		
178.	17.39	34.82			25.30	273.8	100.	21.82	35.24	24.47	350.9	0.382		
194.	16.54	34.76			25.46	259.3	150.	19.07	35.00	25.02	299.8	0.546		
226.	14.83	34.56			25.69	237.7	200.	16.24	34.73	25.50	255.0	0.685		
251.	13.15	34.36			25.89	219.0	250.	13.21	34.37	25.88	219.6	0.805		
281.	12.25	34.28			26.00	208.4	300.	11.78	34.25	26.07	202.5	0.912		
306.	11.64	34.24			26.09	200.7	400.	9.26	34.12	26.41	170.8	1.100		
408.	9.06	34.11			26.43	168.3	500.	7.05	34.06	26.69	143.4	1.258		
510.	6.86	34.06			26.72	140.9	600.	5.41	34.13	26.96	117.8	1.390		
611.	5.27	34.14			26.98	115.2	700.	4.63	34.22	27.12	102.2	1.502		
814.	4.28	34.33			27.25	91.1	800.	4.29	34.32	27.23	92.2	1.600		
1016.	3.72	34.49			27.43	74.4	1000.	3.76	34.48	27.42	75.4	1.769		
1218.	3.23	34.54			27.52	66.5	1200.	3.27	34.54	27.51	67.0	1.914		
1520.	2.66	34.61			27.63	56.5	1500.	2.69	34.61	27.62	56.9	2.102		

TEMPERATURE ERROR TERM AT 700. METERS IS 0.10

CROMWELL DRY BULB 23.5		2, STATION WET BULB 20.5	41, 23-25N LAT, 157- 0W LONG, APR.	4, 1964, 2300 G.C.T.	BAR. 21	WEATHER 01	VIS. 9	CLOUD TYPE 8,		COVER 3				
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	23.29	35.15			23.98	393.5	0.	23.29	35.15	23.98	393.5	0.000		
9.	23.23	35.15			24.00	392.2	10.	23.23	35.15	24.00	392.3	0.040		
47.	23.23	35.16			24.01	392.9	20.	23.23	35.14	23.99	393.2	0.080		
71.	22.99	35.26			24.15	380.0	30.	23.23	35.14	23.99	393.6	0.119		
95.	22.30	35.28			24.37	360.7	50.	23.22	35.17	24.02	391.8	0.198		
118.	21.50	35.20			24.53	346.0	75.	22.90	35.27	24.19	376.9	0.295		
142.	20.21	35.11			24.81	319.9	100.	22.15	35.27	24.40	357.8	0.388		
165.	19.27	35.04			25.00	302.3	150.	19.91	35.09	24.88	313.8	0.557		
179.	18.33	34.92			25.15	288.6	200.	17.33	34.82	25.31	273.4	0.705		
210.	16.95	34.78			25.38	267.6	250.	14.98	34.55	25.65	242.0	0.895		
234.	16.00	34.66			25.50	255.8	300.	12.65	34.38	26.00	209.5	0.949		
259.	14.40	34.50			25.74	234.1	400.	9.28	34.14	26.42	169.4	1.140		
282.	13.39	34.43			25.89	219.4	500.	6.96	34.05	26.70	142.5	1.297		
374.	10.04	34.19			26.33	177.8	600.	5.60	34.14	26.94	119.6	1.430		
468.	7.61	34.06			26.61	150.9	700.	5.03	34.29	27.13	102.4	1.542		
560.	5.97	34.08			26.85	128.0	800.	4.73	34.39	27.25	91.8	1.640		
746.	4.93	34.36			27.20	96.2	1000.	4.09	34.47	27.38	80.0	1.814		
933.	4.32	34.44			27.33	84.6	1200.	3.47	34.55	27.50	68.6	1.964		
1120.	3.70	34.53			27.46	72.1								
1348.	3.05	34.59			27.58	61.6								

CROMWELL DRY BULB 23.7		2, STATION WET BULB 20.7	42, 22- ON LAT, 157- 0W LONG, APR.	5, 1964, 0700 G.C.T.	BAR. 20	WEATHER 02	VIS. 9	CLOUD TYPE 8,		COVER 3				
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	23.40	35.02			23.85	406.3	0.	23.40	35.02	23.85	406.3	0.000		
9.	23.40	35.02			23.85	406.3	10.	23.40	35.02	23.86	406.0	0.041		
46.	23.22	35.19			24.03	390.5	20.	23.36	35.06	23.90	402.5	0.082		
72.	23.06	35.24			24.12	383.4	30.	23.31	35.11	23.94	398.4	0.122		
94.	22.91	35.28			24.19	377.3	50.	23.20	35.20	24.05	389.3	0.202		
116.	22.35	35.28			24.35	362.8	75.	23.05	35.25	24.13	382.9	0.299		
139.	20.73	35.12			24.68	332.4	100.	22.83	35.29	24.22	374.5	0.394		
165.	19.42	35.06			24.98	306.6	150.	20.10	35.09	24.82	319.0	0.569		
180.	18.99	35.02			25.06	297.4	200.	18.32	34.93	25.16	288.1	0.722		
210.	17.90	34.88			25.22	282.4	250.	15.51	34.62	25.58	248.7	0.858		
233.	16.55	34.73			25.43	262.9	300.	13.34	34.42	25.89	219.6	0.976		
260.	14.96	34.56			25.66	241.4	400.	9.13	34.15	26.45	166.2	1.170		
284.	14.08	34.48			25.79	229.7	500.	7.03	34.14	26.76	137.5	1.324		
378.	9.84	34.18			26.36	175.3	600.	6.12	34.20	26.93	121.3	1.454		
475.	7.97	34.13			26.70	142.4	700.	5.34	34.30	27.10	105.6	1.569		
571.	6.38	34.18			26.88	126.2	800.	4.78	34.39	27.24	92.7	1.669		
764.	4.95	34.36			27.20	96.6	1000.	4.10	34.52	27.41	76.7	1.840		
956.	4.24	34.50			27.39	79.4	1200.	3.52	34.59	27.53	66.4	1.985		
1151.	3.66	34.56			27.49	69.6								
1446.	2.96	34.61			27.60	59.7								

Table 3.--Original and derived oceanographic data for Townsend Cromwell cruise 3

ORIGINAL DATA					DERIVED DATA					INTERPOLATED DATA				
CROMWELL DRY BULB 24.4		3, STATION	1, 20-36N LAT, 157-15W LONG, APR. 13, 1964, 0500 G.C.T.		WET BULB 19.5		WIND SPEED 15, DIR. 13	BAR. 16	WEATHER 02	VIS. 9	CLOUD TYPE 8, COVER 2			
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
1.	24.64	34.84			23.35	454.0	0.	24.64	34.84	23.35	453.9	0.000		
10.	24.52	34.86			23.40	449.5	10.	24.52	34.86	23.40	449.5	0.046		
50.	24.21	34.88			23.51	440.7	20.	24.44	34.87	23.43	447.2	0.091		
103.	23.34	35.02			23.87	408.2	30.	24.37	34.87	23.46	445.0	0.136		
127.	22.12	35.09			24.27	370.8	50.	24.21	34.88	23.51	440.7	0.225		
153.	20.52	35.05			24.68	332.6	75.	23.99	34.94	23.62	431.4	0.335		
179.	19.05	34.94			24.98	304.6	100.	23.43	35.01	23.84	411.3	0.441		
194.	18.14	34.86			25.15	289.0	150.	20.71	35.06	24.64	336.6	0.630		
228.	15.48	34.58			25.56	250.1	200.	17.66	34.81	25.23	281.3	1.786		
255.	14.21	34.44			25.73	234.4	250.	14.42	34.46	25.70	236.9	0.916		
282.	12.98	34.32			25.89	219.4	300.	12.00	34.25	26.02	206.7	1.028		
307.	11.62	34.22			26.07	201.8	400.	8.99	34.14	26.46	165.3	1.216		
408.	8.86	34.14			26.49	162.9	500.	6.55	34.14	26.83	130.3	1.365		
510.	6.36	34.15			26.86	127.4	600.	5.90	34.28	27.02	112.6	1.487		
610.	5.00	34.30			27.03	111.5	700.	5.50	34.38	27.14	101.8	1.596		
813.	5.02	34.43			27.24	92.9	800.	5.08	34.43	27.23	93.7	1.695		
1015.	4.16	34.51			27.40	78.2	1000.	4.22	34.51	27.39	79.1	1.870		
1215.	3.60	34.54			27.48	70.9	1200.	3.64	34.54	27.48	71.3	2.022		
1513.	2.84	34.58			27.59	60.8	1500.	2.87	34.58	27.58	61.1	2.223		

CROMWELL DRY BULB 23.9		3, STATION	2, 19- 8N LAT, 156-58W LONG, APR. 13, 1964, 1500 G.C.T.		WET BULB 19.2		WIND SPEED 12, DIR. 17	BAR. 15	WEATHER 02	VIS. 9	CLOUD TYPE , COVER			
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	24.19	34.68			23.36	452.6	0.	24.19	34.68	23.36	452.6	0.000		
10.	24.20	34.69			23.37	452.6	10.	24.20	34.69	23.37	452.6	0.046		
102.	23.85	34.76			23.52	441.2	20.	24.16	34.69	23.38	451.8	0.092		
126.	23.07	34.82			23.56	438.4	30.	24.13	34.70	23.39	450.9	0.137		
151.	21.77	35.04			24.33	365.9	50.	24.06	34.71	23.42	448.8	0.228		
176.	19.94	35.01			24.80	321.5	75.	23.96	34.73	23.47	445.5	0.340		
192.	19.28	34.97			24.95	308.5	100.	23.86	34.76	23.52	441.6	0.452		
225.	17.22	34.76			25.30	275.7	150.	21.87	35.03	24.30	369.2	0.656		
251.	14.69	34.48			25.66	241.3	200.	18.88	34.93	25.02	301.6	0.825		
277.	13.52	34.39			25.83	224.8	250.	14.78	34.49	25.65	242.5	0.963		
302.	12.39	34.30			25.99	210.1	300.	12.48	34.31	25.98	211.2	1.077		
403.	8.64	34.11			26.50	161.6	400.	8.73	34.11	26.49	162.8	1.266		
505.	6.99	34.16			26.78	135.2	500.	7.04	34.15	26.77	136.3	1.417		
603.	5.76	34.30			27.05	109.5	600.	5.79	34.30	27.04	110.3	1.541		
802.	4.71	34.46			27.30	86.6	700.	5.11	34.39	27.21	95.3	1.645		
1002.	4.00	34.52			27.43	75.4	800.	4.71	34.46	27.30	86.7	1.737		
1201.	3.48	34.57			27.52	67.1	1000.	4.01	34.52	27.43	75.5	1.901		
1496.	2.91	34.60			27.60	60.1	1200.	3.48	34.57	27.52	67.1	2.046		

CROMWELL DRY BULB 24.9		3, STATION	3, 17-30N LAT, 157- 1W LONG, APR. 14, 1964, 0100 G.C.T.		WET BULB 20.8		WIND SPEED 14, DIR. 11	BAR. 15	WEATHER 02	VIS. 9	CLOUD TYPE 8, COVER 5			
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	24.66	34.46			23.06	481.9	0.	24.66	34.46	23.06	481.9	0.000		
8.	24.66	34.44			23.04	483.7	10.	24.66	34.44	23.04	483.9	0.049		
49.	24.58	34.46			23.08	481.5	20.	24.65	34.43	23.04	484.6	0.098		
100.	24.21	34.60			23.30	462.8	30.	24.64	34.43	23.04	484.4	0.147		
125.	23.38	34.66			23.59	436.1	50.	24.58	34.46	23.08	481.5	0.244		
151.	21.24	35.08			24.51	349.0	75.	24.52	34.52	23.15	476.2	0.365		
177.	19.67	35.02			24.88	314.1	100.	24.21	34.60	23.30	462.8	0.483		
192.	18.20	34.83			25.11	292.5	150.	21.33	35.06	24.47	352.4	0.688		
225.	13.83	34.33			25.72	233.9	200.	17.15	34.70	25.27	277.8	0.847		
249.	11.55	34.20			26.07	200.6	250.	11.50	34.20	26.08	199.8	0.968		
279.	10.37	34.18			26.27	182.1	300.	9.66	34.18	26.39	170.7	1.061		
294.	9.79	34.17			26.36	173.5	400.	8.33	34.37	26.75	137.3	1.216		
386.	8.61	34.38			26.71	141.0	500.	6.69	34.32	26.95	119.0	1.346		
488.	6.75	34.31			26.93	120.5	600.	6.48	34.45	27.08	108.2	1.460		
607.	6.49	34.46			27.08	107.6	700.	5.84	34.49	27.19	97.8	1.564		
772.	5.28	34.49			27.26	91.3	800.	5.12	34.49	27.28	89.3	1.659		
954.	4.40	34.51			27.38	80.6	1000.	4.27	34.52	27.40	78.9	1.829		
1209.	3.80	34.55			27.47	72.5	1200.	3.82	34.55	27.47	72.8	1.983		
1509.	3.03	34.58			27.57	63.1	1500.	3.05	34.58	27.57	63.3	2.190		

Table 3.--Continued

ORIGINAL DATA					DERIVED DATA					INTERPOLATED DATA				
CROMWELL 3, STATION 4, 15-56N LAT, 157- 1W LONG, APR. 14, 1964, 1000 G.C.T.														
DRY BULB 24.0		WET BULB 21.2		WIND SPEED 16, DIR. 10		BAR. 15		WEATHER 00		VIS. 9		CLOUD TYPE , COVER		
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.		
1.	24.55	34.54			23.15	473.0	0.	24.55	34.54	23.15	473.0	0.000		
11.	24.55	34.54			23.15	473.4	10.	24.55	34.54	23.15	473.4	0.048		
50.	24.51	34.56			23.18	472.4	20.	24.56	34.54	23.15	474.3	0.096		
75.	24.28	34.65			23.31	460.3	30.	24.56	34.54	23.15	474.5	0.144		
98.	23.97	34.84			23.55	438.7	50.	24.51	34.56	23.18	472.4	0.239		
122.	23.86	34.92			23.64	430.7	75.	24.28	34.65	23.31	460.3	0.357		
146.	21.07	35.06			24.54	345.8	100.	24.01	34.85	23.54	439.3	0.470		
169.	19.32	34.98			24.94	308.0	150.	20.88	35.08	24.61	339.6	0.666		
193.	16.29	34.58			25.38	266.5	200.	13.99	34.36	25.72	234.0	0.811		
215.	12.71	34.31			25.94	213.2	250.	10.95	34.36	26.31	178.0	0.914		
240.	11.12	34.28			26.21	186.9	300.	9.94	34.48	26.58	153.2	0.998		
264.	10.82	34.48			26.42	167.5	400.	9.39	34.63	26.79	135.2	1.144		
287.	10.09	34.46			26.53	157.0	500.	7.87	34.53	26.95	120.4	1.273		
383.	9.64	34.64			26.75	138.3	600.	6.90	34.51	27.07	109.3	1.389		
479.	8.11	34.54			26.92	123.2	700.	6.08	34.50	27.17	100.5	1.495		
576.	7.13	34.52			27.04	111.7	800.	5.49	34.49	27.24	94.0	1.593		
770.	5.61	34.49			27.22	95.6	1000.	4.78	34.53	27.35	84.1	1.773		
963.	4.95	34.53			27.33	86.2	1200.	4.04	34.56	27.45	74.8	1.934		
1157.	4.09	34.55			27.44	75.7								
1450.	3.32	34.58			27.54	66.3								
TEMPERATURE ERROR TERM AT 150. METERS IS 0.12														
TEMPERATURE ERROR TERM AT 200. METERS IS 0.12														
TEMPERATURE ERROR TERM AT 300. METERS IS 0.10														

CROMWELL 3, STATION 5, 14-32N LAT, 157- 0W LONG, APR. 14, 1964, 1800 G.C.T.														
DRY BULB 25.6		WET BULB 22.7		WIND SPEED 16, DIR. 11		BAR. 12		WEATHER 01		VIS. 9		CLOUD TYPE 8, COVER 3		
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	24.36	34.58			23.24	464.7	0.	24.36	34.58	23.24	464.7	0.000		
10.	24.37	34.56			23.22	466.8	10.	24.37	34.56	23.22	466.8	0.047		
44.	24.38	34.58			23.23	467.0	20.	24.38	34.56	23.22	467.3	0.094		
50.	24.38	34.58			23.23	467.2	30.	24.38	34.57	23.22	467.4	0.142		
75.	23.84	34.86			23.60	432.7	50.	24.38	34.58	23.23	467.2	0.236		
99.	23.27	35.03			23.90	405.4	75.	23.84	34.86	23.60	432.7	0.349		
122.	20.91	35.06			24.58	340.8	100.	23.18	35.03	23.93	402.7	0.454		
146.	18.89	34.94			25.02	299.6	150.	18.61	34.91	25.07	295.4	0.630		
171.	16.86	34.67			25.31	272.3	200.	13.55	34.35	25.79	226.5	0.762		
186.	15.00	34.46			25.57	247.4	250.	10.92	34.40	26.34	175.1	0.893		
218.	12.11	34.29			26.04	203.5	300.	9.71	34.45	26.59	151.5	0.945		
243.	10.93	34.34			26.29	179.2	400.	9.09	34.60	26.81	133.0	1.089		
269.	10.90	34.52			26.44	166.0	500.	7.66	34.51	26.96	119.0	1.216		
293.	9.84	34.45			26.57	153.7	600.	6.71	34.48	27.07	109.1	1.311		
388.	9.26	34.60			26.78	135.1	700.	5.98	34.48	27.17	100.1	1.437		
484.	7.85	34.52			26.94	120.8	800.	5.41	34.51	27.26	92.0	1.534		
578.	6.89	34.48			27.05	111.3	1000.	4.48	34.55	27.40	79.4	1.707		
765.	5.60	34.50			27.23	94.7	1200.	3.77	34.57	27.49	70.7	1.960		
952.	4.68	34.54			27.37	81.9								
1138.	3.98	34.56			27.46	73.4								
1424.	3.22	34.58			27.55	64.9								

CROMWELL 3, STATION 6, 13- ON LAT, 157- 0W LONG, APR. 15, 1964, 0300 G.C.T.														
DRY BULB 25.4		WET BULB 23.0		WIND SPEED 12, DIR. 08		BAR. 11		WEATHER 02		VIS. 9		CLOUD TYPE 8, COVER 2		
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
1.	25.32	34.38			22.80	506.8	0.	25.32	34.38	22.80	506.8	0.000		
10.	25.30	34.38			22.80	506.6	10.	25.30	34.38	22.80	506.6	0.022		
30.	25.12	34.18			22.71	516.5	20.	25.21	34.28	22.76	511.4	0.103		
50.	25.10	34.19			22.72	516.0	30.	25.12	34.18	22.71	516.5	0.155		
75.	25.08	34.19			22.73	516.4	50.	25.10	34.19	22.72	516.0	0.259		
99.	24.66	34.42			23.03	488.6	75.	25.08	34.19	22.73	516.4	0.389		
124.	23.39	34.67			23.59	435.7	100.	24.65	34.43	23.04	487.5	0.515		
149.	18.69	34.70			24.89	312.2	150.	18.55	34.69	24.92	309.3	0.716		
173.	15.72	34.51			25.45	258.8	200.	12.43	34.26	25.95	211.0	0.947		
188.	13.91	34.37			25.74	231.6	250.	10.21	34.34	26.42	166.9	0.942		
220.	10.57	34.17			26.23	185.0	300.	9.50	34.46	26.64	147.2	1.021		
247.	10.24	34.32			26.40	168.9	400.	8.70	34.59	26.87	127.0	1.160		
272.	9.94	34.46			26.56	154.2	500.	7.79	34.57	26.99	116.7	1.283		
297.	9.53	34.46			26.63	147.9	600.	6.84	34.53	27.09	107.3	1.396		
395.	8.74	34.59			26.86	127.7	700.	6.07	34.52	27.19	98.5	1.500		
495.	7.84	34.57			26.98	117.1	800.	5.46	34.53	27.27	91.0	1.536		
593.	6.90	34.53			27.08	107.9	1000.	4.59	34.54	27.38	81.1	1.770		
790.	5.51	34.53			27.26	91.6	1200.	3.83	34.57	27.48	71.6	1.924		
988.	4.64	34.54			27.37	81.8								
1186.	3.86	34.57			27.48	71.6								
1483.	2.99	34.60			27.59	61.0								

Table 3.--Continued

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA				
3, STATION 7, 11-30N LAT, 157- 0W LONG, APR. 15, 1964, 1200 G.C.T.												
CROMWELL DRY BULB 25.2	WET BULB 23.6			WIND SPEED 18, DIR. 09	BAR. 12	WEATHER 02	VIS. 9	CLOUD TYPE , COVER				
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	25.91	34.66			22.83	504.0	0	25.91	34.66	22.83	504.0	0.000
10.	25.92	34.66			22.82	504.7	10.	25.92	34.66	22.82	504.7	0.051
45.	25.65	34.66			22.91	498.1	20.	25.89	34.65	22.83	504.6	0.102
50.Δ	25.58	34.67			22.94	495.5	30.	25.82	34.65	22.85	503.0	0.153
75.Δ	25.50	34.68			22.97	493.4	50.	25.58	34.67	22.94	495.5	0.233
99.	22.28	35.03			24.18	378.3	75.	25.50	34.68	22.97	493.4	0.378
122.	19.67	35.00			24.87	313.6	100.	22.18	35.04	24.22	375.1	0.487
145.	15.58	34.50			25.48	255.6	150.	14.95	34.44	25.57	247.1	0.644
171.	12.84	34.28			25.89	216.8	200.	11.20	34.36	26.26	181.5	0.752
186.	11.95	34.24			26.10	196.2	250.	10.84	34.71	26.60	150.5	0.836
217.	11.21	34.56			26.41	167.4	300.	10.23	34.71	26.71	141.2	0.909
240.	10.95	34.70			26.57	153.0	400.	9.15	34.66	26.85	128.9	1.046
269.	10.61	34.70			26.63	147.8	500.	8.06	34.60	26.97	118.6	1.171
292.	10.32	34.71			26.69	142.6	600.	6.91	34.54	27.09	107.2	1.285
387.	9.28	34.67			26.83	130.2	700.	6.11	34.53	27.19	98.2	1.388
482.	8.29	34.61			26.94	120.8	800.	5.50	34.54	27.27	90.7	1.484
574.	7.15	34.55			27.06	109.8	1000.	4.48	34.57	27.41	77.8	1.654
762.	5.73	34.54			27.24	93.4	1200.	3.71	34.59	27.51	68.5	1.802
950.	4.72	34.56			27.38	80.9						
1139.	3.90	34.59			27.49	70.2						
1427.	3.17	34.60			27.57	62.8						

TEMPERATURE ERROR TERM AT 200. METERS IS 0.13

3, STATION 8, 11-30N LAT, 154- 0W LONG, APR. 16, 1964, 0800 G.C.T.												
CROMWELL DRY BULB 26.2	WET BULB 24.0		WIND SPEED 28, DIR. 09		BAR. 13		WEATHER 02		VIS. 7	CLOUD TYPE , COVER		
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	26.59	34.71			22.65	520.8	0.	26.59	34.71	22.65	520.8	0.000
8.	26.63	34.72			22.65	521.6	10.	26.63	34.72	22.65	521.7	0.053
30.Δ	26.60	34.71			22.65	522.3	20.	26.63	34.72	22.64	522.2	0.106
43.	26.56	34.71			22.66	521.6	30.	26.60	34.71	22.65	522.3	0.158
60.Δ	26.51	34.71			22.68	520.4	50.	26.51	34.71	22.68	520.4	0.263
75.Δ	26.20	34.72			22.78	511.3	75.	26.20	34.72	22.78	511.3	0.393
96.	16.42	34.51			25.29	271.8	100.	15.45	34.50	25.50	251.7	0.489
119.	12.90	34.53			26.07	198.3	150.	11.68	34.76	26.49	159.2	0.593
140.	11.93	34.74			26.42	165.3	200.	11.10	34.74	26.57	151.9	0.671
169.	11.42	34.75			26.52	156.0	250.	10.37	34.73	26.70	141.0	0.745
182.	11.30	34.74			26.54	154.9	300.	10.03	34.72	26.75	137.3	0.815
214.	10.91	34.74			26.61	148.8	400.	9.28	34.67	26.84	130.2	0.950
237.	10.53	34.74			26.68	142.7	500.	8.49	34.63	26.93	122.7	1.078
266.	10.23	34.72			26.71	139.8	600.	7.54	34.58	27.04	113.4	1.197
289.	10.10	34.72			26.74	138.1	700.	6.67	34.56	27.14	103.8	1.307
385.	9.39	34.68			26.82	131.3	800.	5.91	34.56	27.24	94.9	1.407
485.	8.63	34.64			26.92	124.0	1000.	4.81	34.57	27.38	81.7	1.586
581.	7.72	34.59			27.01	115.3	1200.	4.04	34.58	27.47	73.0	1.743
774.	6.09	34.56			27.21	97.0						
971.	4.94	34.57			27.36	83.2						
1166.	4.18	34.58			27.46	74.7						
1460.	3.45	34.60			27.55	66.5						

TEMPERATURE ERROR TERM AT 100. METERS IS 0.12

3, STATION 9, 13- ON LAT, 154- 1W LONG, APR. 16, 1964, 1800 G.C.T.												
CROMWELL DRY BULB 25.1	WET BULB 22.9		WIND SPEED 17, DIR. 08		BAR. 13	WEATHER 01	VIS. 8	CLOUD TYPE 4, COVER 5				
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	24.71	34.37			22.97	489.8	0.	24.71	34.37	22.97	489.8	0.000
8.	24.71	34.38			22.98	489.4	10.	24.71	34.38	22.98	489.4	0.050
30. Δ	24.70	34.38			22.99	490.0	20.	24.70	34.38	22.99	489.6	0.099
50. Δ	24.70	34.38			22.99	490.8	30.	24.70	34.38	22.99	490.0	0.148
75. Δ	23.80	34.74			23.52	440.2	50.	24.70	34.38	22.99	490.8	0.247
97.	23.22	34.85			23.78	416.9	75.	23.80	34.74	23.52	440.2	0.365
100. Δ	23.18	34.85			23.79	415.9	100.	23.18	34.85	23.79	415.9	0.472
121.	19.37	34.75			24.75	324.2	150.	15.83	34.53	25.45	258.8	0.642
146.	16.55	34.58			25.32	271.1	200.	11.57	34.55	26.34	174.2	0.751
169.	12.81	34.38			25.97	208.8	250.	10.74	34.70	26.61	149.7	0.833
184.	11.98	34.45			26.19	188.5	300.	10.11	34.69	26.71	140.9	0.906
216.	11.37	34.64			26.45	164.3	400.	9.26	34.63	26.81	132.8	1.045
241.	10.92	34.70			26.58	152.5	500.	8.17	34.59	26.95	120.5	1.172
265.	10.47	34.69			26.65	146.0	600.	7.20	34.55	27.06	110.7	1.289
289.	10.20	34.69			26.70	142.0	700.	6.37	34.53	27.15	102.1	1.397
366.	9.41	34.64			26.79	134.5	800.	5.70	34.52	27.23	94.8	1.496
484.	8.33	34.60			26.93	122.2	1000.	4.82	34.55	27.36	83.3	1.676
581.	7.38	34.56			27.04	112.5	1200.	4.07	34.58	27.46	73.9	1.836
765.	5.90	34.52			27.21	97.2						
971.	4.94	34.55			27.35	84.7						
1165.	4.21	34.57			27.44	75.8						
1457.	3.27	34.60			27.56	64.2						

FROM BT DATA

Table 3.--Continued

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA				
CROMWELL DRY BULB 24.9		3, STATION WET BULB 22.2	10, 14-30N LAT, 154- 22.2	1W LONG, APR. 17, 1964, 19, DIR. 07	154- 19, DIR. 07	1W LONG, APR. 17, 1964, BAR. 12	0300 G.C.T. WEATHER 02	VIS. 8	CLOUD TYPE 8, COVER 5			
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	24.80	34.38			22.96	491.7	0.	24.80	34.38	22.96	491.7	0.000
11.	24.82	34.38			22.95	492.7	10.	24.82	34.38	22.95	492.6	0.050
49.	24.76	34.36			22.95	493.9	20.	24.84	34.37	22.94	494.2	0.100
74.	24.47	34.42			23.08	482.2	30.	24.83	34.36	22.93	495.0	0.150
100.	23.50	34.76			23.63	431.3	50.	24.76	34.36	22.95	493.9	0.249
125.	21.42	34.98			24.38	360.0	75.	24.43	34.43	23.10	480.9	0.372
149.	19.72	35.05			24.89	312.2	100.	23.50	34.76	23.63	431.3	0.447
174.	18.01	34.84			25.17	286.7	150.	19.66	35.05	24.90	311.0	0.674
190.	16.39	34.62			25.38	266.0	200.	15.51	34.53	25.52	253.6	0.816
223.	13.62	34.38			25.81	226.0	250.	11.42	34.23	26.12	195.8	0.929
248.	11.58	34.24			26.10	198.2	300.	9.13	34.28	26.55	155.2	1.018
275.	9.75	34.21			26.40	169.5	400.	8.35	34.50	26.85	128.3	1.161
298.	9.16	34.27			26.54	156.0	500.	7.32	34.50	27.00	116.4	1.234
398.	8.37	34.50			26.85	128.6	600.	6.58	34.50	27.10	105.7	1.395
499.	7.33	34.50			27.00	114.9	700.	5.84	34.50	27.20	97.2	1.497
601.	6.57	34.50			27.10	105.6	800.	5.20	34.50	27.28	89.9	1.592
800.	5.20	34.50			27.28	89.9	1000.	4.39	34.52	27.38	80.2	1.764
1000.	4.39	34.52			27.38	80.2	1200.	3.78	34.57	27.49	70.8	1.917
1200.	3.78	34.57			27.49	70.8						
1398.	3.11	34.58			27.56	63.4						

CROMWELL DRY BULB 23.9		3, STATION WET BULB 21.2		11, 16-3N LAT, 154- WIND SPEED 21, DIR. 06		0N LONG, APR. 17, 1964, 1300 G.C.T. BAR. 15		WEATHER 02		VIS. 8		CLOUD TYPE , COVER	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	24.40	34.53			23.19	469.4	0.	24.40	34.53	23.19	469.4	0.000	
11.	24.40	34.52			23.18	470.6	10.	24.40	34.52	23.18	470.5	0.048	
50. ^Δ	24.40	34.52			23.18	472.1	20.	24.45	34.50	23.15	473.7	0.095	
75. ^Δ	23.80	34.71			23.50	442.4	30.	24.47	34.49	23.14	475.2	0.143	
99.	23.35	34.81			23.71	423.5	50.	24.40	34.52	23.18	472.1	0.239	
122.	21.72	34.98			24.30	367.8	75.	23.80	34.71	23.50	442.4	0.394	
146.	20.25	35.02			24.73	327.6	100.	23.29	34.82	23.73	421.3	0.463	
169.	19.19	34.98			24.98	304.8	150.	20.09	35.02	24.78	323.3	0.650	
184.	17.97	34.82			25.16	287.5	200.	15.90	34.57	25.46	259.2	0.797	
214.	14.06	34.36			25.70	236.1	250.	11.48	34.20	26.09	199.1	0.913	
240.	12.07	34.19			25.97	210.6	300.	10.05	34.36	26.47	163.8	1.004	
265.	10.80	34.26			26.26	183.3	400.	7.70	34.27	26.77	135.6	1.155	
290.	10.32	34.36			26.42	168.3	500.	6.85	34.39	26.98	116.4	1.242	
388.	7.85	34.26			26.74	138.4	600.	6.03	34.43	27.12	103.8	1.393	
488.	6.96	34.38			26.96	118.3	700.	5.47	34.47	27.22	94.6	1.494	
588.	6.11	34.42			27.10	105.1	800.	5.02	34.50	27.30	87.3	1.586	
788.	5.08	34.50			27.29	88.2	1000.	4.17	34.55	27.43	75.2	1.750	
989.	4.21	34.55			27.43	75.7	1200.	3.55	34.58	27.52	67.1	1.894	
1188.	3.62	34.57			27.50	68.7							
1488.	2.90	34.63			27.62	57.7							

TEMPERATURE ERROR TERM AT 200. METERS IS 0.15

CROMWELL DRY BULB 24.6		3, STATION WET BULB 21.0		12, 17-31N LAT, 153-59W LONG, APR. 17, 1964, 2200 G.C.T.		WIND SPEED 26, DIR. 07		BAR. 16		WEATHER 02		VIS. 8		CLOUD TYPE 6, COVER 3	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.			
1.	23.76	34.54			23.39	450.7	0.	23.76	34.54	23.39	450.6	0.000			
11.	23.77	34.53			23.37	452.0	10.	23.77	34.53	23.37	452.1	0.046			
49.	23.20	34.82			23.76	416.7	20.	23.66	34.59	23.45	445.2	0.091			
75. ^Δ	23.06	34.88			23.85	409.5	30.	23.52	34.66	23.55	436.4	0.136			
99.	22.72	35.02			24.05	391.0	50.	23.19	34.82	23.76	416.4	0.221			
123.	22.62	35.06			24.11	386.3	75.	23.06	34.88	23.85	409.5	0.325			
146.	21.75	35.10			24.38	360.8	100.	22.72	35.02	24.05	390.9	0.426			
173.	19.92	35.02			24.82	320.2	150.	21.50	35.09	24.45	354.7	0.614			
188.	19.06	34.97			25.00	303.0	200.	17.93	34.83	25.18	286.5	0.776			
221.	15.69	34.54			25.48	257.4	250.	13.08	34.31	25.86	221.3	0.904			
246.	13.36	34.33			25.82	225.2	300.	10.57	34.18	26.24	185.7	1.006			
271.	11.88	34.24			26.04	204.2	400.	8.94	34.47	26.73	139.9	1.171			
297.	10.66	34.18			26.22	187.5	500.	7.89	34.50	26.95	120.2	1.302			
394.	9.02	34.46			26.71	141.7	600.	6.66	34.48	27.08	108.3	1.417			
493.	7.77	34.50			26.94	121.2	700.	5.94	34.49	27.18	99.3	1.522			
590.	6.74	34.48			27.07	109.3	800.	5.39	34.50	27.26	92.2	1.619			
785.	5.47	34.50			27.24	93.2	1000.	4.44	34.51	27.37	81.3	1.795			
981.	4.51	34.51			27.36	82.3	1200.	3.73	34.55	27.48	71.8	1.950			
1176.	3.86	34.55			27.46	73.0									
1370.	3.21	34.58			27.55	64.4									

^Δ FROM BT DATA

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA							
CROMWELL DRY BULB 23.2		3, STATION MET BULB 20.0		13, 19-- WIND SPEED 18, DIR. 06		ON LAT, 154-- OW LONG, APR. 18, 1964, 0700 G.C.T.		BAR. 17		WEATHER 02		VIS. 8		CLOUD TYPE , COVER	
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.			
0.	23.48	34.64			23.54	435.6	0.	23.48	34.64	23.54	435.6	0.000			
10.	23.50	34.66			23.55	435.1	10.	23.50	34.66	23.55	435.1	0.044			
50.Δ	23.49	34.65			23.55	437.1	20.	23.51	34.66	23.55	435.9	0.088			
75.Δ	23.42	34.71			23.61	431.7	30.	23.51	34.66	23.55	436.5	0.132			
99.	22.93	34.94			23.93	402.5	50.	23.49	34.65	23.55	437.1	0.220			
123.	22.45	35.05			24.15	382.4	75.	23.42	34.71	23.61	431.7	0.330			
147.	21.51	35.21			24.53	346.6	100.	22.91	34.95	24.53	343.0	0.435			
171.	20.11	35.11			24.84	318.4	150.	21.36	35.21	24.57	343.0	0.622			
185.	19.07	35.01			25.03	300.2	200.	17.46	34.80	25.27	277.4	0.779			
216.	15.71	34.57			25.50	255.5	250.	13.16	34.31	25.84	223.2	0.905			
241.	13.83	34.36			25.75	232.2	300.	10.76	34.19	26.21	188.5	1.009			
265.	12.17	34.22			25.99	209.4	400.	8.87	34.33	26.63	149.1	1.179			
288.	11.13	34.19			26.14	194.8	500.	7.31	34.38	26.91	123.6	1.317			
381.	9.18	34.30			26.56	155.7	600.	5.96	34.31	27.04	111.3	1.435			
475.	7.75	34.40			26.86	128.0	700.	5.43	34.38	27.16	100.1	1.542			
569.	6.21	34.30			26.99	115.0	800.	5.09	34.47	27.27	90.7	1.639			
577.	5.31	34.45			27.22	94.5	1000.	4.31	34.52	27.39	79.2	1.810			
947.	4.44	34.51			27.37	81.0	1200.	3.83	34.55	27.47	72.8	1.964			
1136.	4.07	34.54			27.43	76.0									
1424.	3.49	34.56			27.51	69.7									

TEMPERATURE ERROR TERM AT 200. METERS IS 0.11
 TEMPERATURE ERROR TERM AT 700. METERS IS 0.10

CROMWELL DRY BULB 23.0		3, STATION MET BULB 20.5		14, 20-30N LAT, 154-- WIND SPEED 21, DIR. 10		ON LAT, 154-- OW LONG, APR. 21, 1964, 1200 G.C.T.		BAR. 19		WEATHER 00		VIS. 8		CLOUD TYPE , COVER	
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.			
0.	23.42	34.52			23.47	442.6	0.	23.42	34.52	23.47	442.6	0.000			
9.	23.44	34.52			23.46	443.5	10.	23.44	34.52	23.46	443.6	0.045			
47.	23.40	34.52			23.48	443.8	20.	23.44	34.52	23.46	444.1	0.090			
75.Δ	23.30	34.54			23.52	440.7	30.	23.44	34.52	23.46	444.3	0.135			
96.	22.80	34.90			23.94	401.7	50.	23.41	34.51	23.47	444.9	0.224			
120.	22.55	35.00			24.08	388.6	75.	23.30	34.54	23.52	440.7	0.336			
143.	22.02	35.07			24.29	370.1	100.	22.76	34.93	23.97	398.6	0.441			
170.	19.36	34.72			24.73	327.8	150.	21.50	35.00	24.37	361.9	0.633			
183.	17.57	34.58			25.07	295.5	200.	16.08	34.45	25.33	271.4	0.793			
214.	15.21	34.39			25.47	257.8	250.	12.91	34.26	25.86	221.3	0.917			
238.	13.74	34.34			25.75	231.8	300.	10.87	34.17	26.17	192.1	1.021			
266.	11.92	34.17			25.98	210.0	400.	8.54	34.16	26.56	156.2	1.197			
289.	11.18	34.17			26.12	197.1	500.	6.66	34.21	26.86	127.2	1.340			
394.	8.67	34.16			26.53	158.2	600.	5.47	34.26	27.06	108.3	1.459			
482.	6.95	34.20			26.82	131.4	700.	4.89	34.38	27.21	94.0	1.561			
577.	5.65	34.24			27.02	112.2	800.	4.61	34.47	27.32	84.8	1.651			
766.	4.71	34.45			27.29	87.0	1000.	4.10	34.52	27.42	76.5	1.815			
958.	4.21	34.51			27.40	78.3	1200.	3.58	34.56	27.50	69.2	1.962			
1151.	3.69	34.55			27.48	70.7									
1446.	3.00	34.58			27.57	62.3									

CROMWELL DRY BULB 21.4		3, STATION MET BULB 19.7		15, 22-- WIND SPEED 20, DIR. 07		ON LAT, 154-- 2W LONG, APR. 21, 1964, 2000 G.C.T.		BAR. 23		WEATHER 03		VIS. 8		CLOUD TYPE 7, COVER 7	
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.			
0.	23.37	34.64			23.57	432.5	0.	23.37	34.64	23.57	432.5	0.000			
10.	23.35	34.64			23.58	432.4	10.	23.35	34.64	23.58	432.4	0.044			
30.Δ	23.34	34.66			23.60	431.4	20.	23.34	34.65	23.59	431.9	0.088			
50.Δ	23.36	34.68			23.61	431.3	30.	23.34	34.66	23.60	431.4	0.131			
75.Δ	23.40	34.76			23.66	427.6	50.	23.36	34.68	23.61	431.3	0.218			
100.	23.42	34.90			23.76	419.0	75.	23.40	34.76	23.66	427.6	0.326			
124.	22.97	34.97			23.94	402.4	100.	23.42	34.90	23.76	419.0	0.433			
149.	22.46	35.04			24.14	384.4	150.	22.41	35.04	24.15	383.1	0.635			
174.	20.94	35.02			24.54	346.3	200.	19.37	34.99	24.94	309.3	0.809			
189.	19.96	35.02			24.81	321.8	250.	15.85	34.58	25.48	258.8	0.953			
221.	18.17	34.88			25.16	289.1	300.	12.26	34.29	25.96	212.5	1.071			
247.	16.07	34.61			25.45	261.4	400.	8.94	34.14	26.48	164.0	1.261			
272.	14.25	34.38			25.67	240.1	500.	7.06	34.16	26.77	136.2	1.413			
298.	12.37	34.24			25.95	214.0	600.	5.44	34.18	27.00	114.3	1.539			
395.	9.05	34.14			26.46	165.7	700.	4.95	34.30	27.14	100.7	1.648			
493.	7.20	34.16			26.75	138.0	800.	4.84	34.42	27.26	91.1	1.745			
591.	5.51	34.17			26.98	115.8	1000.	4.11	34.50	27.40	78.1	1.916			
785.	4.90	34.41			27.24	92.5	1200.	3.56	34.53	27.48	70.8	2.067			
979.	4.17	34.50			27.39	78.8									
1175.	3.65	34.50			27.45	74.1									
1469.	3.03	34.58			27.57	62.9									

TEMPERATURE ERROR TERM AT 700. METERS IS 0.15

Δ FROM BT DATA

Table 3.--Continued

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA					
CROMWELL DRY BULB 22.8		3, STATION WET BULB 19.9		16, 23-29N LAT, 153-58W LONG, APR. 22, 1964, 0500 G.C.T.		22, 1964, 0500 G.C.T. BAR. 22		WEATHER 03		VIS. 8		CLOUD TYPE 8, COVER 7	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	23.34	34.68			23.61	428.8	0.	23.34	34.68	23.61	428.8	0.000	
11.	23.35	34.70			23.63	428.1	10.	23.35	34.70	23.62	428.1	0.044	
30. Δ	23.36	34.71			23.63	428.4	20.	23.39	34.67	23.60	431.3	0.087	
48.	22.87	35.19			24.14	380.9	30.	23.36	34.71	23.63	428.4	0.130	
74.	22.56	35.20			24.23	372.7	50.	22.84	35.20	24.15	379.1	0.212	
98.	22.13	35.24			24.38	359.1	75.	22.55	35.20	24.24	372.2	0.306	
120.	21.54	35.23			24.54	344.9	100.	22.09	35.24	24.40	357.9	0.398	
144.	20.45	35.11			24.75	326.1	150.	20.30	35.10	24.78	323.2	0.570	
172.	19.57	35.04			24.92	310.0	200.	17.86	34.85	25.21	283.0	0.723	
185.	18.73	34.95			25.07	296.3	250.	14.72	34.49	25.66	240.9	0.855	
214.	17.04	34.76			25.34	271.2	300.	12.51	34.29	25.96	213.2	0.969	
240.	15.27	34.55			25.58	248.2	400.	9.52	34.11	26.35	175.9	1.165	
268.	13.84	34.41			25.78	229.5	500.	7.29	34.04	26.65	148.0	1.329	
290.	12.69	34.32			25.91	217.9	600.	5.61	34.06	26.88	125.1	1.467	
387.	9.85	34.12			26.31	180.0	700.	4.83	34.20	27.08	106.3	1.584	
485.	7.61	34.05			26.61	151.9	800.	4.47	34.35	27.24	91.9	1.684	
580.	5.83	34.04			26.84	129.4	1000.	3.88	34.49	27.41	76.4	1.854	
771.	4.59	34.32			27.20	95.2	1200.	3.41	34.56	27.52	67.0	2.000	
965.	3.97	34.47			27.39	78.4							
1158.	3.53	34.54			27.49	69.6							
1453.	2.92	34.57			27.57	62.2							

CROMWELL DRY BULB 22.2		3, STATION WET BULB 18.7		17, 23-30N LAT, 151-0W LONG, APR. 22, 1964, 2300 G.C.T.		22, 1964, 2300 G.C.T. BAR. 22		WEATHER 02		VIS. 9		CLOUD TYPE 8, COVER 3	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	22.89	34.98			23.97	394.8	0.	22.89	34.98	23.97	394.8	0.000	
10.	22.92	34.98			23.96	396.0	10.	22.92	34.98	23.96	396.0	0.040	
30. ^Δ	22.92	35.06			24.02	391.0	20.	22.93	35.01	23.98	394.3	0.080	
48.	22.82	35.13			24.10	383.9	30.	22.92	35.06	24.02	391.0	0.120	
75.	22.02	35.22			24.40	356.7	50.	22.77	35.14	24.13	381.9	0.198	
98.	21.62	35.22			24.51	347.0	75.	22.02	35.22	24.40	356.7	0.291	
122.	20.75	35.24			24.76	323.7	100.	21.56	35.22	24.53	345.0	0.379	
146.	19.85	35.08			24.88	313.2	150.	19.69	35.07	24.91	310.3	0.544	
171.	18.68	34.97			25.10	293.2	200.	16.95	34.72	25.33	271.6	0.691	
188.	17.53	34.80			25.25	278.8	250.	14.20	34.39	25.70	237.5	0.819	
220.	16.05	34.61			25.46	260.1	300.	11.64	34.20	26.06	203.2	0.930	
245.	14.58	34.44			25.65	241.8	400.	8.78	34.05	26.43	167.9	1.117	
272.	12.68	34.23			25.88	220.0	500.	6.70	34.01	26.70	142.0	1.274	
295.	11.81	34.21			26.03	205.7	600.	5.46	34.10	26.93	120.7	1.407	
394.	8.93	34.06			26.41	169.7	700.	4.79	34.20	27.09	105.6	1.521	
495.	6.78	34.01			26.69	143.2	800.	4.44	34.31	27.21	94.5	1.622	
594.	5.51	34.09			26.92	121.8	1000.	4.01	34.46	27.38	79.7	1.798	
792.	4.46	34.30			27.20	95.3	1200.	3.63	34.53	27.47	71.7	1.952	
993.	4.02	34.46			27.38	80.0							
1193.	3.65	34.51			27.45	73.5							
1495.	3.18	34.56			27.54	66.3							

CROMWELL DRY BULB 21.7		3, STATION WET BULB 19.5		18, 22- IN LAT, 150-58W LONG, APR. 23, 1964, 0800 G.C.T.		23, 1964, 0800 G.C.T. BAR. 21		WEATHER 00		VIS. 9		CLOUD TYPE , COVER	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	23.30	34.88			23.78	413.3	0.	23.30	34.88	23.78	413.3	0.000	
11.	23.32	34.88			23.77	414.3	10.	23.32	34.88	23.77	414.2	0.042	
30. ^Δ	23.28	34.89			23.79	413.2	20.	23.33	34.87	23.76	415.5	0.084	
51.	22.85	35.16			24.12	382.6	30.	23.28	34.89	23.79	413.2	0.126	
75.	22.30	35.20			24.31	365.7	50.	22.88	35.15	24.10	384.3	0.206	
102.	21.88	35.20			24.42	355.5	75.	22.30	35.20	24.31	365.7	0.300	
127.	20.70	35.13			24.69	330.5	100.	21.92	35.20	24.41	356.4	0.391	
153.	19.20	34.98			24.97	304.5	150.	19.37	35.00	24.94	307.2	0.559	
177.	18.34	34.92			25.15	288.8	200.	17.28	34.77	25.29	275.5	0.705	
192.	17.71	34.83			25.23	280.9	250.	13.80	34.36	25.75	232.0	0.833	
226.	15.61	34.56			25.52	254.3	300.	11.80	34.20	26.03	206.2	0.944	
254.	13.53	34.33			25.79	228.7	400.	9.09	34.10	26.42	169.4	1.133	
280.	12.55	34.26			25.93	215.5	500.	6.61	34.08	26.77	136.0	1.288	
304.	11.65	34.19			26.05	204.5	600.	5.79	34.25	27.01	113.8	1.414	
405.	8.98	34.10			26.44	167.7	700.	5.20	34.37	27.17	98.6	1.521	
507.	6.47	34.08			26.79	134.0	800.	4.71	34.44	27.28	88.4	1.616	
606.	5.77	34.26			27.02	112.7	1000.	4.12	34.51	27.42	77.7	1.784	
808.	4.68	34.44			27.29	87.8	1200.	3.87	34.52	27.44	75.5	1.939	
1010.	4.10	34.51			27.41	77.5	1500.	3.36	34.56	27.52	68.6	2.158	
1210.	3.86	34.52			27.44	75.5							
1513.	3.34	34.56			27.52	68.4							

^Δ FROM BT DATA

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA			
CROMWELL 3, STATION 19, 20-30N LAT, 150-59W LONG, APR. 23, 1964, 1700 G.C.T.											
DRY BULB 21.8		WET BULB 18.7		WIND SPEED 16, DIR. 08		BAR. 18		WEATHER 02		VIS. 9	
										CLOUD TYPE 8, COVER 3	
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA
1.	23.11	34.63			23.64	426.1	0.	23.11	34.63	23.64	426.1
10.	23.13	34.62			23.63	427.7	10.	23.13	34.62	23.63	427.7
30.Δ	23.06	34.66			23.68	423.7	20.	23.13	34.61	23.62	428.7
48.	22.59	35.00			24.07	387.0	30.	23.06	34.66	23.68	423.7
75.Δ	22.46	35.02			24.12	383.0	50.	22.57	35.01	24.09	385.6
101.	22.35	35.04			24.17	379.6	75.	22.46	35.02	24.12	383.0
123.	22.08	35.12			24.31	367.4	100.	22.36	35.04	24.17	379.8
148.	21.21	35.16			24.58	342.3	150.	21.11	35.16	24.60	339.9
173.	20.01	35.10			24.85	316.7	200.	19.22	35.01	24.99	304.3
188.	19.67	35.07			24.92	310.9	250.	16.34	34.63	25.41	265.7
220.	18.23	34.88			25.14	290.5	300.	12.59	34.22	25.89	219.5
246.	16.61	34.67			25.37	269.0	400.	8.68	34.13	26.51	160.4
273.	14.66	34.42			25.62	245.7	500.	7.08	34.24	26.83	130.5
296.	12.84	34.24			25.86	222.9	600.	5.61	34.23	27.01	112.9
395.	8.79	34.13			26.49	162.3	700.	5.02	34.33	27.16	99.1
494.	7.18	34.24			26.82	131.8	800.	4.79	34.45	27.28	88.6
592.	5.67	34.22			27.00	114.2	1000.	4.07	34.51	27.41	76.7
789.	4.83	34.44			27.27	89.5	1200.	3.56	34.55	27.50	69.3
986.	4.12	34.51			27.41	77.5					
1182.	3.56	34.55			27.49	69.4					
1478.	3.31	34.56			27.53	67.8					
TEMPERATURE ERROR TERM AT 70C. METERS IS 0.12											

TEMPERATURE ERROR TERM AT 700. METERS IS 0.12

CROMWELL 3, STATION 20, 19- ON LAT, 150-59W LONG, APR. 24, 1964, 0200 G.C.T.											
DRY BULB 22.9		WET BULB 20.3		WIND SPEED 21, DIR. 09		BAR. 16		WEATHER 01		VIS. 8	
										CLOUD TYPE 6, COVER 5	
DEPTH	TEMP.	SAL.	CXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA
0.	23.62	34.52			23.41	448.1	0.	23.62	34.52	23.41	448.1
10.	23.62	34.52			23.41	448.5	10.	23.62	34.52	23.41	448.5
30.Δ	23.62	34.52			23.41	449.3	20.	23.62	34.52	23.41	448.9
50.Δ	23.62	34.52			23.41	450.1	30.	23.62	34.52	23.41	449.3
75.Δ	23.54	34.53			23.44	448.1	50.	23.62	34.52	23.41	450.1
100.	22.95	34.88			23.88	407.4	75.	23.54	34.53	23.44	448.1
125.	22.60	35.01			24.08	389.4	100.	22.95	34.88	23.88	407.4
150.	21.75	35.14			24.41	358.1	150.	21.75	35.14	24.41	358.1
174.	20.32	35.12			24.79	323.2	200.	18.51	34.90	25.09	295.0
190.	19.31	35.03			24.98	304.9	250.	13.69	34.27	25.71	235.9
223.	16.39	34.56			25.34	271.4	300.	10.16	34.16	26.29	180.7
249.	13.78	34.28			25.70	237.2	400.	7.59	34.10	26.65	146.3
274.	11.70	34.18			26.03	205.4	500.	6.31	34.22	26.92	121.6
297.	10.29	34.16			26.27	182.6	600.	5.63	34.34	27.10	105.0
393.	7.72Δ	34.10			26.63	148.4	700.	5.26	34.42	27.21	95.6
487.	6.43	34.20			26.89	124.3	800.	4.99	34.47	27.28	89.4
582.	5.71	34.32			27.07	107.1	1000.	4.28	34.52	27.40	78.5
778.	5.07	34.46			27.26	90.9	1200.	3.70	34.55	27.48	71.0
976.	4.35	34.52			27.39	79.5					
1173.	3.79	34.54			27.46	72.9					
1471.	3.07	34.58			27.57	63.4					

CROMWELL 3, STATION 21, 17-30N LAT, 150-57W LONG, APR. 24, 1964, 1300 G.C.T.											
DRY BULB 23.0		WET BULB 20.3		WIND SPEED 22, DIR. 06		BAR. 15		WEATHER 02		VIS. 8	
										CLOUD TYPE , COVER	
DEPTH	TEMP.	SAL.	CXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA
0.	23.82	34.40			23.26	462.4	0.	23.82	34.40	23.26	462.4
10.	23.82	34.40			23.26	462.8	10.	23.82	34.40	23.26	462.8
30.Δ	23.78	34.41			23.28	461.7	20.	23.81	34.40	23.27	462.6
50.	23.68	34.44			23.33	457.5	30.	23.78	34.41	23.28	461.7
75.Δ	23.58	34.49			23.40	452.1	50.	23.68	34.44	23.33	457.5
102.	23.00	34.77			23.78	416.8	75.	23.58	34.49	23.40	452.1
124.	21.22	34.88			24.36	361.9	100.	23.08	34.75	23.74	420.6
151.	18.83	34.83			24.95	306.3	150.	18.93	34.84	24.93	308.1
175.	15.91	34.48			25.39	265.1	200.	13.82	34.36	25.75	230.7
190.	14.61	34.42			25.63	242.3	250.	11.03	34.17	26.15	193.4
222.	12.34	34.24			25.95	211.6	300.	9.46	34.12	26.38	171.8
248.	11.12	34.18			26.14	194.4	400.	7.66	34.22	26.73	138.9
274.	10.13	34.12			26.26	182.4	500.	7.19	34.43	26.96	118.3
299.	9.48	34.12			26.37	172.2	600.	6.58	34.46	27.07	108.6
397.	7.68	34.21			26.72	139.7	700.	5.92	34.48	27.17	99.5
494.	7.22	34.42			26.95	119.1	800.	5.30	34.49	27.26	91.8
593.	6.63	34.46			27.07	109.3	1000.	4.46	34.52	27.38	80.8
790.	5.35	34.49			27.25	92.4	1200.	3.79	34.56	27.48	71.9
986.	4.51	34.52			27.37	81.6					
1183.	3.86	34.56			27.47	72.3					
1481.	3.06	34.58			27.57	63.3					

Δ FROM BT DATA
*INTERPOLATED VALUE

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA			INTERPOLATED DATA					
CROMWELL DRY BULB 23.2		3, STATION WET BULB 21.6	22, 16- 21.6	ON LAT, 151- WIND SPEED 18, DIR. 06	1W LONG, APR. 24, 1964, BAR. 16	2100 G.C.T.	WEATHER 02	VIS. 8	CLOUD TYPE 8, COVER 3			
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
1.	24.45	34.40			23.08	480.3	0.	24.45	34.40	23.08	480.2	0.000
10.	24.45	34.40			23.08	480.6	10.	24.45	34.40	23.08	480.6	0.049
30. ^A	24.40	34.41			23.10	479.2	20.	24.43	34.40	23.08	480.2	0.037
50. ^A	24.28	34.42			23.14	475.9	30.	24.40	34.41	23.10	479.2	0.146
74.	23.22	34.70			23.66	426.9	50.	24.28	34.42	23.14	475.9	0.242
98.	22.52	34.84			23.97	398.5	75.	23.20	34.71	23.67	425.8	0.355
122.	20.83	35.09			24.63	336.6	100.	22.42	34.87	24.02	393.7	0.459
147.	17.86	34.71			25.10	291.7	150.	17.33	34.65	25.18	284.0	0.629
171.	14.10	34.31			25.65	239.4	200.	12.49	34.27	25.95	211.5	0.754
185.	13.28	34.29			25.81	224.9	250.	10.93	34.42	26.35	173.6	0.851
219.	11.68	34.28			26.11	196.4	300.	10.41	34.58	26.57	154.2	0.934
246.	11.00	34.40			26.33	176.1	400.	9.09	34.54	26.77	136.8	1.081
271.	10.63	34.50			26.47	162.9	500.	7.27	34.44	26.96	118.5	1.210
295.	10.46	34.57			26.56	155.3	600.	6.42	34.46	27.10	106.3	1.323
394.	9.21	34.55			26.75	138.1	700.	5.80	34.49	27.20	97.0	1.426
493.	7.35	34.44			26.95	119.5	800.	5.31	34.52	27.28	98.8	1.520
592.	6.47	34.66			27.09	107.1	1000.	4.38	34.54	27.40	78.5	1.691
791.	5.36	34.52			27.27	90.3	1200.	3.69	34.57	27.50	69.4	1.840
988.	4.43	34.54			27.40	79.1						
1187.	3.75	34.58			27.50	69.5						
1483.	3.01	34.60			27.59	61.2						

CROMWELL DRY BULB 24.9		3, STATION WET BULB 22.6	23, 14-27N LAT, 151- WIND SPEED 20, DIR. 04	25, 1964, 0600 G.C.T. BAR. 15	WEATHER 02	VIS. 8	CLOUD TYPE , COVER					
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	24.54	34.40			23.05	482.8	0.	24.54	34.40	23.05	482.8	0.000
10.	24.52	34.40			23.05	482.6	10.	24.52	34.40	23.05	482.6	0.049
30. Δ	24.48	34.40			23.07	482.2	20.	24.50	34.40	23.06	482.4	0.098
50. Δ	24.48	34.40			23.07	483.0	30.	24.49	34.40	23.07	482.2	0.146
75. Δ	22.88	34.78			23.82	411.8	50.	24.48	34.40	23.07	483.0	0.244
102.	21.79	35.00			24.30	367.5	75.	22.88	34.78	23.82	411.8	0.356
124.	18.65	34.85			25.01	299.5	100.	21.91	34.99	24.26	371.0	0.435
148.	15.38	34.48			25.51	252.9	150.	15.15	34.46	25.54	249.8	0.611
175.	12.82	34.26			25.87	218.0	200.	11.37	34.25	26.14	192.9	0.723
194.	11.59	34.20			26.06	200.1	250.	10.02	34.46	26.55	155.1	0.811
221.	10.83	34.40			26.39	169.6	300.	9.63	34.59	26.71	140.0	0.885
246.	10.08	34.45			26.53	156.7	400.	8.52	34.58	26.89	125.1	1.019
274.	9.82	34.53			26.64	147.1	500.	7.43	34.55	27.02	112.6	1.139
299.	9.64	34.59			26.71	140.2	600.	6.55	34.53	27.13	103.2	1.248
400.	8.52	34.58			26.89	125.1	700.	5.96	34.53	27.22	95.4	1.348
500.	7.43	34.55			27.02	112.6	800.	5.29	34.53	27.29	88.8	1.441
599.	6.56	34.53			27.13	103.3	1000.	4.33	34.54	27.41	77.9	1.610
795.	5.32	34.53			27.29	89.1	1200.	3.65	34.57	27.50	69.4	1.759
991.	4.36	34.54			27.40	78.3						
1186.	3.75	34.57			27.49	70.3						
1481.	2.96	34.61			27.60	59.9						

CROMWELL DRY BULB 24.6		3, STATION WET BULB 22.3		24, 12-56N LAT, 150-59W LONG, APR. 25, 1964, 1600 G.C.T.		WIND SPEED 20, DIR. 06		BAR. 14		WEATHER 02		VIS. 8		CLOUD TYPE , COVER	
DEPTH	TEMP.	SAL.		OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.		SIGMA-T	DELTA	DYN.DPTH.	
1.	25.08	34.46				22.93	494.1	0.	25.08	34.46		22.93	494.0	0.000	
11.	25.09	34.46				22.93	494.8	10.	25.09	34.46		22.93	494.8	0.050	
74.	23.66	34.50				23.38	453.5	20.	25.14	34.41		22.87	500.2	0.100	
97.	21.67	34.94				24.28	368.5	30.	25.10	34.38		22.86	501.7	0.151	
119.	19.28	34.90				24.89	311.1	50.	24.70	34.38		22.98	490.8	0.251	
143.	15.98	34.52				25.40	262.8	75.	23.59	34.52		23.42	450.0	0.369	
166.	13.05	34.30				25.86	219.2	100.	21.38	34.96		24.38	359.6	0.471	
179.	11.89	34.35				26.12	194.1	150.	15.02	34.42		25.54	249.3	0.625	
211.	11.29	34.59				26.42	166.4	200.	11.30	34.51		26.36	172.5	0.731	
236.	10.98	34.67				26.54	155.7	250.	10.74	34.67		26.58	152.0	0.813	
260.	10.57	34.66				26.61	149.8	300.	10.02	34.66		26.70	141.2	0.887	
282.	10.25	34.67				26.67	144.1	400.	8.84	34.59		26.85	129.0	1.023	
374.	9.14	34.60				26.80	132.9	500.	7.75	34.56		26.99	116.4	1.147	
469.	8.07	34.58				26.95	119.4	600.	6.80	34.52		27.09	107.2	1.260	
561.	7.16	34.53				27.05	111.2	700.	5.98	34.52		27.19	97.7	1.364	
745.	5.66	34.52				27.24	93.7	800.	5.36	34.52		27.28	90.1	1.458	
929.	4.80	34.54				27.36	83.2	1000.	4.51	34.55		27.39	79.7	1.630	
1113.	4.10	34.56				27.45	74.7	1200.	3.79	34.57		27.49	70.7	1.783	
1394.	3.23	34.60				27.57	63.3								

TEMPERATURE ERROR TERM AT 30. METERS IS 0.12
 SALINITY ERROR TERM AT 30. METERS IS 0.06
 TEMPERATURE ERROR TERM AT 50. METERS IS 0.13
 SALINITY ERROR TERM AT 50. METERS IS 0.06
 TEMPERATURE ERROR TERM AT 200. METERS IS 0.11

Table 3.--Continued

ORIGINAL DATA					DERIVED DATA		INTERPOLATED DATA					
CROMWELL DRY BULB 26.5		3, STATION WET BULB 23.9	25, 11-30N LAT, 151- WIND SPEED 22, DIR. 04	0W LONG, APR. 25, 1964, BAR. 15	0800 G.C.T.	WEATHER 02	VIS. 8	CLOUD TYPE	COVER			
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	26.74	34.77			22.65	521.0	0.	26.74	34.77	22.65	521.0	0.000
8.	26.76	34.76			22.63	522.6	10.	26.76	34.76	22.63	522.9	0.053
30.Δ	26.75	34.76			22.64	523.2	20.	26.77	34.76	22.63	523.6	0.106
50.Δ	26.62	34.76			22.68	520.1	30.	26.75	34.76	22.64	523.2	0.158
75.Δ	24.60	34.75			23.29	462.2	50.	26.62	34.76	22.68	520.1	0.264
97.	21.34	34.73			24.22	374.9	75.	24.60	34.75	23.29	462.2	0.387
120.	17.67	34.64			25.10	291.4	100.	20.88	34.72	24.33	363.6	0.491
145.	13.19	34.46			25.96	209.7	150.	12.74	34.50	26.08	198.0	0.633
169.	11.84	34.70			26.41	167.3	200.	11.31	34.74	26.53	155.6	0.722
185.	11.58	34.73			26.48	160.7	250.	10.68	34.74	26.65	145.8	0.798
216.	11.05	34.74			26.58	151.3	300.	10.13	34.72	26.73	139.1	0.870
242.	10.75	34.74			26.64	146.7	400.	9.28	34.67	26.84	130.2	1.006
268.	10.51	34.73			26.67	143.8	500.	8.26	34.61	26.95	120.4	1.132
292.	10.21	34.72			26.72	140.0	600.	7.14	34.57	27.08	108.3	1.248
389.	9.38	34.68			26.83	131.2	700.	6.27	34.55	27.18	99.3	1.393
487.	8.41	34.62			26.93	122.0	800.	5.58	34.54	27.26	91.8	1.449
582.	7.32	34.58			27.06	110.2	1000.	4.59	34.56	27.40	79.5	1.622
776.	5.73	34.54			27.24	93.6	1200.	3.90	34.58	27.48	71.6	1.775
967.	4.72	34.56			27.39	81.1						
1159.	4.07	34.58			27.47	73.3						
1450.	3.36	34.58			27.54	66.8						

CROMWELL		3, STATION		26, 10- ON LAT, 148- 1W LONG, APR. 27, 1964, 0300 G.C.T.		BAR. 11		WEATHER 01		VIS. 8		CLOUD TYPE 6, COVER 6	
DRY BULB 26.0		WET BULB 24.0		WIND SPE: 18		DIR. 11							
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	25.60	34.32			22.67	519.3	0.	25.60	34.32	22.67	519.3	0.000	
11.	25.60	34.33			22.67	519.0	10.	25.60	34.33	22.67	519.2	0.053	
30.Δ	25.44	34.36			22.75	517.9	20.	25.53	34.34	22.71	516.3	0.105	
50.Δ	25.36	34.37			22.78	510.6	30.	25.44	34.36	22.75	512.9	0.157	
75.Δ	25.32	34.37			22.79	510.4	50.	25.36	34.37	22.78	510.6	0.260	
100.	18.94	34.52			24.69	329.7	75.	25.32	34.37	22.79	510.4	0.389	
123.	13.93	34.38			25.74	229.5	100.	18.94	34.52	24.69	329.7	0.494	
147.	12.04	34.58			26.27	179.2	150.	11.92	34.60	26.31	175.7	0.622	
174.	11.42	34.70			26.48	159.8	200.	11.06	34.72	26.57	152.2	0.704	
189.	11.23	34.72			26.53	155.3	250.	10.40	34.70	26.67	143.6	0.779	
221.	10.74	34.72			26.62	147.5	300.	10.07	34.70	26.73	139.3	0.850	
247.	10.43	34.70			26.66	144.2	400.	9.36	34.68	26.83	131.1	0.987	
274.	10.21	34.72			26.72	139.6	500.	8.52	34.62	26.92	124.1	1.116	
298.	10.08	34.70			26.72	139.4	600.	7.41	34.57	27.04	112.7	1.235	
397.	9.39	34.68			26.83	131.3	700.	6.39	34.55	27.16	101.3	1.343	
496.	8.56	34.62			26.91	124.5	800.	5.54	34.54	27.27	91.3	1.441	
595.	7.47	34.57			27.03	113.3	1000.	4.46	34.56	27.41	78.4	1.612	
791.	5.60	34.54			27.26	92.0	1200.	3.77	34.58	27.50	69.8	1.762	
968.	4.60	34.55			27.39	80.3							
1160.	3.91	34.59			27.49	70.5							
1450.	3.37	34.59			27.55	66.2							

CROMWELL DRY BULB 25.8		3, STATION WET BULB 23.2		27, 11-30N LAT, 148- 4W LONG, APR. 27, 1964, 1400 G.C.T.		WIND SPEED 24, DIR. 06		BAR. 12		WEATHER 00		VIS. 8		CLOUD TYPE , COVER	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.			
0.	26.58	34.89			22.79	507.5	0.	26.58	34.89	22.79	507.5	0.000			
10.	26.60	34.90			22.79	507.8	10.	26.60	34.90	22.79	507.8	0.052			
30.Δ	26.60	34.90			22.79	508.6	20.	26.60	34.90	22.79	508.2	0.103			
50.Δ	26.60	34.90			22.79	509.4	30.	26.60	34.90	22.79	508.6	0.154			
75.Δ	26.48	34.90			22.83	506.8	50.	26.60	34.90	22.79	509.4	0.257			
101.	18.03	34.59			24.97	302.9	75.	26.48	34.90	22.83	506.8	0.385			
126.	14.97	34.43			25.56	247.2	100.	18.39	34.60	24.89	310.2	0.487			
152.	12.48	34.55			26.17	189.7	150.	12.63	34.54	26.13	193.5	0.614			
177.	11.74	34.65			26.39	169.3	200.	11.10	34.72	26.56	153.2	0.702			
193.	11.24	34.71			26.53	156.3	250.	10.42	34.70	26.67	144.0	0.777			
226.	10.72	34.72			26.63	147.2	300.	9.86	34.69	26.75	136.4	0.847			
253.	10.39	34.70			26.67	143.7	400.	8.84	34.62	26.87	126.9	0.980			
279.	10.13	34.70			26.72	139.8	500.	7.78	34.57	26.99	116.2	1.103			
304.	9.81	34.69			26.76	135.7	600.	6.86	34.54	27.10	106.6	1.215			
406.	8.79	34.62			26.87	126.5	700.	6.09	34.53	27.19	97.9	1.319			
508.	7.70	34.57			27.00	115.3	800.	5.45	34.54	27.28	90.2	1.414			
609.	6.78	34.54			27.11	105.8	1000.	4.46	34.56	27.41	78.3	1.584			
812.	5.38	34.54			27.29	89.4	1200.	3.84	34.58	27.49	70.9	1.735			
1013.	4.41	34.56			27.41	77.6	1500.	3.07	34.62	27.60	60.7	1.936			
1214.	3.81	34.58			27.49	70.5									
1515.	3.04	34.62			27.60	60.3									

4 FROM BT DATA

Table 3.--Continued

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA				
CROMWELL DRY BULB 26.0		3, STATION WET BULB 23.8	28, 13- ON LAT, 148- 1W LONG, APR. 27, 1964, 2400 G.C.T.	WIND SPEED 18, DIR. 07	BAR. 14	WEATHER 01	VIS. 7	CLOUD TYPE 8, COVER 4				
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	26.05	34.88			22.95	492.3	0.	26.05	34.88	22.95	492.3	0.000
10.	26.00	34.88			22.96	491.2	10.	26.00	34.88	22.96	491.2	0.050
30.Δ	25.94	34.88			22.98	490.3	20.	25.97	34.88	22.97	490.6	0.099
50.Δ	25.90	34.88			23.00	489.9	30.	25.94	34.88	22.98	490.3	0.149
75.Δ	25.86	34.88			23.01	489.7	50.	25.90	34.88	23.00	489.9	0.248
100.Δ	21.40	34.75			24.21	375.2	75.	25.86	34.88	23.01	489.7	0.371
125.	17.26	34.58			25.15	286.5	100.	21.40	34.75	24.21	375.2	0.480
151.	13.34	34.32			25.82	223.0	150.	13.46	34.33	25.80	224.9	0.631
175.	12.05	34.54			26.24	183.0	200.	11.80	34.68	26.40	169.0	0.730
191.	11.87	34.64			26.35	172.8	250.	10.74	34.64	26.56	154.0	0.812
224.	11.26	34.65			26.48	160.5	300.	10.29	34.67	26.66	145.3	0.887
243.	10.86	34.64			26.54	155.9	400.	9.17	34.63	26.82	131.9	1.027
270.	10.53	34.66			26.61	149.4	500.	8.03	34.58	26.96	119.5	1.154
294.	10.35	34.67			26.65	146.1	600.	7.03	34.53	27.07	109.9	1.270
394.	9.24	34.63			26.81	132.7	700.	6.21	34.52	27.17	100.6	1.376
495.	8.08	34.53			26.95	120.0	800.	5.55	34.53	27.26	92.2	1.474
594.	7.08	34.53			27.06	110.5	1000.	4.57	34.54	27.38	80.9	1.649
795.	5.58	34.53			27.26	92.6	1200.	3.84	34.57	27.48	71.7	1.803
995.	4.59	34.54			27.38							
1194.	3.89	34.57			27.48	72.1						
1493.	3.08	34.62			27.60	60.7						

CROMWELL DRY BULB 24.5		3, STATION WET BULB 22.2	29, 14-30N LAT, 148- 0W LONG, APR. 28, 1964, 1000 G.C.T.	WIND SPEED 18, DIR. 07	BAR. 17	WEATHER 00	VIS. 7	CLOUD TYPE , COVER					
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	25.17	34.69			23.08	480.1	0.	25.17	34.69	23.08	480.1	0.000	
10.	25.18	34.70			23.08	480.0	10.	25.18	34.70	23.08	480.1	0.049	
30.Δ	25.18	34.69			23.07	481.6	20.	25.18	34.70	23.08	480.7	0.097	
50.Δ	25.18	34.69			23.07	482.3	30.	25.18	34.69	23.07	481.6	0.146	
75.Δ	25.18	34.69			23.07	483.3	50.	25.18	34.69	23.07	482.3	0.243	
98.	24.43	34.49			23.15	477.0	75.	25.18	34.69	23.07	483.3	0.364	
122.	20.58	34.88			24.54	345.3	100.	24.15	34.52	23.26	466.7	0.434	
168.	17.72	34.65			25.09	292.8	150.	17.41	34.61	25.14	288.2	0.674	
173.	14.15	34.30			25.63	241.2	200.	12.40	34.35	26.03	203.9	0.798	
187.	13.11	34.33			25.87	218.7	250.	10.83	34.58	26.50	160.2	0.890	
220.	11.62	34.41			26.22	185.8	300.	9.83	34.54	26.64	147.2	0.968	
246.	10.95	34.58			26.48	162.0	400.	8.44	34.50	26.83	129.8	1.107	
271.	10.26	34.53			26.56	154.3	500.	7.44	34.50	26.98	116.5	1.232	
295.	9.91	34.54			26.63	148.3	600.	6.47	34.49	27.11	104.9	1.344	
393.	8.52	34.50			26.82	130.8	700.	5.64	34.50	27.22	94.6	1.444	
492.	7.52	34.50			26.97	117.5	800.	5.00	34.51	27.31	86.2	1.536	
589.	6.57	34.49			27.10	106.2	1000.	4.30	34.56	27.43	76.1	1.700	
783.	5.08	34.51			27.30	87.4	1200.	3.69	34.58	27.50	69.2	1.847	
977.	4.38	34.56			27.42	76.9							
1170.	3.78	34.56			27.48	71.2							
1465.	3.03	34.59			27.56	62.1							

CROMWELL DRY BULB 23.2		3, STATION WET BULB 21.3	30, 15-58N LAT, 148- 4W LONG, APR. 28, 1964, 1900 G.C.T.	WIND SPEED 22, DIR. 07	BAR. 17	WEATHER 02	VIS. 8	CLOUD TYPE 8, COVER 7					
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
1.	23.72	34.61			23.45	444.5	0.	23.72	34.61	23.45	444.4	0.000	
9.	23.73	34.62			23.45	444.4	10.	23.71	34.62	23.46	443.5	0.045	
46.	22.49	34.89			24.02	392.1	20.	23.46	34.68	23.58	433.0	0.089	
73.	21.74	35.14			24.42	355.0	30.	23.14	34.75	23.72	419.6	0.132	
96.	21.58	35.17			24.48	349.4	50.	22.36	34.93	24.09	385.5	0.213	
119.	20.89	35.16			24.66	332.9	75.	21.73	35.15	24.42	354.2	0.307	
143.	19.73	35.11			24.94	307.9	100.	21.49	35.17	24.51	347.2	0.395	
169.	17.76	34.84			25.23	280.6	150.	19.27	35.06	25.02	300.4	0.558	
182.	16.49	34.61			25.35	268.7	200.	14.41	34.37	25.63	242.4	0.695	
212.	13.15	34.27			25.82	224.5	250.	11.14	34.29	26.21	187.1	0.803	
238.	11.69	34.28			26.11	197.0	300.	10.12	34.46	26.53	158.1	0.890	
264.	10.66	34.31			26.32	177.2	400.	8.36	34.46	26.82	131.2	1.036	
287.	10.35	34.43			26.47	163.6	500.	7.16	34.47	27.00	114.4	1.160	
381.	8.66	34.46			26.77	135.7	600.	6.53	34.49	27.10	105.7	1.271	
477.	7.35	34.47			26.97	117.0	700.	5.91	34.50	27.19	98.1	1.374	
573.	6.71	34.49			27.08	107.9	800.	5.33	34.51	27.27	91.2	1.470	
760.	5.56	34.50			27.23	94.1	1000.	4.43	34.54	27.39	79.6	1.643	
949.	4.61	34.53			27.37	81.7	1200.	3.77	34.56	27.48	71.3	1.796	
1139.	4.02	34.55			27.45	74.7							
1427.	3.22	34.59			27.56	64.2							

FROM BT DATA

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA							
CROMWELL DRY BULB 22.9		3, STATION WET BULB 19.8		31, 17-32N LAT, 148- WIND SPEED 24, DIR. 07		1M LONG, APR. 29, 1964, 0500 G.C.T.		BAR. 17		WEATHER 01		VIS. 8		CLOUD TYPE 8, COVER 3	
DEPTH	TEMP.	SAL.	CXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. DPTH.			
0.	23.38	34.54			23.50	440.0	0.	23.38	34.54	23.50	440.0	0.000			
10.	23.38	34.54			23.50	440.4	10.	23.38	34.54	23.50	440.4	0.045			
30. Δ	23.26	34.57			23.55	435.7	20.	23.33	34.55	23.52	438.7	0.089			
50. Δ	23.12	34.63			23.64	428.3	30.	23.26	34.57	23.55	435.7	0.133			
75.	22.45	34.80			23.96	398.7	50.	23.12	34.63	23.64	428.3	0.220			
100.	21.76	35.01			24.31	365.9	75.	22.48	34.79	23.94	400.1	0.325			
125.	20.63	35.10			24.69	330.8	100.	21.76	35.01	24.31	365.9	0.421			
150.	19.42	35.02			24.95	306.9	150.	19.42	35.02	24.95	306.9	0.591			
175.	18.05	34.82			25.14	289.1	200.	15.62	34.45	25.43	261.7	0.734			
190.	16.60	34.58			25.31	273.6	250.	11.45	34.21	26.10	198.1	0.850			
224.	13.42	34.25			25.75	231.6	300.	10.36	34.44	26.47	163.3	0.941			
250.	11.45	34.21			26.10	198.1	400.	8.74	34.46	26.76	137.2	1.092			
276.	10.55	34.32			26.35	174.8	500.	7.46	34.45	26.94	120.5	1.223			
300.	10.36	34.44			26.47	163.3	600.	6.57	34.46	27.07	108.6	1.338			
401.	8.72	34.46			26.76	137.0	700.	5.94	34.47	27.17	100.3	1.444			
501.	7.45	34.45			26.94	120.3	800.	5.45	34.49	27.24	93.9	1.542			
600.	6.57	34.46			27.07	108.6	1000.	4.57	34.53	27.37	81.7	1.720			
800.	5.45	34.49			27.24	93.9	1200.	3.83	34.56	27.47	72.6	1.876			
998.	4.58	34.53			27.37	81.8									
1197.	3.91	34.56			27.47	73.1									
1497.	3.07	34.59			27.57	62.8									

CROMWELL DRY BULB 22.2		3, STATION WET BULB 18.9		32, 19- WIND SPEED 25, DIR. 08		ON LAT, 147-58N LONG, APR. 29, 1964, 1400 G.C.T.		BAR. 19		WEATHER 02		VIS. 7		CLOUD TYPE , COVER	
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.			
0.	23.22	34.53			23.53	436.3	0.	23.22	34.53	23.53	436.3	0.000			
9.	23.25	34.52			23.52	438.2	10.	23.25	34.52	23.52	438.3	0.045			
50. Δ	23.10	34.64			23.65	427.0	20.	23.25	34.53	23.53	438.0	0.069			
98.	22.36	34.98			24.12	384.1	30.	23.73	34.35	23.95	436.0	0.139			
121.	22.07	35.11			24.30	367.7	50.	23.10	34.64	23.65	427.0	0.220			
145.	20.89	35.15			24.66	334.6	75.	22.74	34.81	23.88	405.0	0.325			
168.	19.76	35.08			24.90	311.7	100.	22.35	34.99	24.13	382.9	0.424			
183.	19.27	35.05			25.01	302.2	150.	20.62	35.14	24.72	328.8	0.603			
214.	17.13	34.72			25.29	276.2	200.	18.22	34.89	25.15	288.9	0.759			
238.	15.10	34.47			25.56	250.3	250.	13.77	34.32	25.73	234.1	0.931			
264.	12.38	34.20			25.91	216.3	300.	10.64	34.28	26.26	183.5	0.996			
285.	11.40	34.26			26.15	194.4	400.	8.19	34.28	26.70	142.1	1.160			
374.	8.77	34.28			26.61	150.6	500.	6.70	34.31	26.94	120.2	1.293			
464.	7.09	34.29			26.87	126.4	600.	5.94	34.37	27.08	106.9	1.407			
556.	6.25	34.34			27.02	112.5	700.	5.36	34.42	27.20	96.5	1.510			
736.	5.19	34.44			27.23	93.4	800.	4.90	34.46	27.28	89.0	1.604			
919.	4.45	34.49			27.35	82.4	1000.	4.17	34.51	27.40	78.1	1.773			
1104.	3.85	34.54			27.46	73.0	1200.	3.55	34.56	27.50	68.8	1.922			
1382.	3.08	34.59			27.57	62.1									

CROMWELL DRY BULB 21.5		3, STATION WET BULB 19.0		33, 20-30N LAT, 148- WIND SPEED 25, DIR. 07		ON LONG, APR. 29, 1964, 2400 G.C.T.		BAR. 22		WEATHER 03		VIS. 8		CLOUD TYPE 8, COVER 4	
DEPTH	TEMP.	SAL.	CXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.			
0.	22.44	34.99			24.11	381.8	0.	22.44	34.99	24.11	381.8	0.000			
10.	22.42	34.98			24.10	382.4	10.	22.42	34.98	24.10	382.4	0.039			
30. Δ	22.36	35.00			24.14	380.1	20.	22.39	34.98	24.12	381.7	0.077			
50. Δ	22.26	35.05			24.20	374.5	30.	22.36	35.00	24.14	380.1	0.116			
75. Δ	22.18	35.10			24.26	369.7	50.	22.26	35.05	24.20	374.5	0.192			
100.	22.05	35.15			24.34	363.5	75.	22.18	35.10	24.26	369.7	0.266			
123.	21.23	35.20			24.60	339.1	100.	22.05	35.15	24.34	363.5	0.378			
147.	19.42	35.03			24.96	306.1	150.	19.29	35.02	24.98	303.9	0.546			
171.	18.59	34.94			25.10	293.2	200.	17.13	34.74	25.30	274.5	0.692			
185.	18.06	34.87			25.18	286.0	250.	12.93	34.26	25.86	221.6	0.817			
218.	15.71	34.55			25.49	257.0	300.	10.39	34.10	26.20	189.1	0.921			
244.	13.37	34.30			25.80	227.5	400.	8.27	34.16	26.59	152.5	1.093			
269.	11.73	34.18			26.02	205.8	500.	6.48	34.15	26.84	128.6	1.235			
294.	10.58	34.10			26.17	191.9	600.	5.91	34.32	27.05	109.6	1.355			
391.	8.47	34.16			26.56	155.1	700.	5.50	34.42	27.18	98.6	1.460			
490.	6.58	34.14			26.82	130.8	800.	5.14	34.47	27.26	91.6	1.556			
588.	5.96	34.31			27.03	111.2	1000.	4.30	34.50	27.38	80.2	1.730			
784.	5.21	34.46			27.24	92.8	1200.	3.64	34.54	27.48	71.2	1.884			
980.	4.37	34.50			27.37	81.2									
1177.	3.71	34.54			27.47	71.9									
1473.	3.02	34.57			27.56	63.5									

Δ FROM BT DATA

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL DRY BULB 22.1	3, STATION WET BULB 18.9	34, 22- ON LAT, 148- OW LONG, APR. 30, 1964, 0900 G.C.T.	WIND SPEED 26, DIR. 08	BAR. 24	WEATHER 00	VIS. 7	CLOUD TYPE	COVER				
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
1.	22.24	35.12			24.26	367.1	0.	22.24	35.12	24.26	367.0	0.000
10.	22.25	35.10			24.24	369.1	10.	22.25	35.10	24.24	369.1	0.038
30. Δ	22.24	35.12			24.26	368.2	20.	22.25	35.11	24.25	369.0	0.075
50. Δ	22.22	35.13			24.27	367.7	30.	22.24	35.12	24.26	368.2	0.112
75.	22.18	35.14			24.29	366.8	50.	22.22	35.13	24.27	367.7	0.186
91.	22.04	35.15			24.34	362.9	75.	22.18	35.14	24.29	366.8	0.279
110.	21.61	35.25			24.54	345.0	100.	21.84	35.20	24.43	354.7	0.369
130.	21.37	35.28			24.62	337.2	150.	21.10	35.27	24.69	331.5	0.542
151.	21.08	35.27			24.70	331.1	200.	18.46	34.95	25.14	290.3	0.699
164.	20.54	35.23			24.81	320.5	250.	15.10	34.50	25.58	248.6	0.835
191.	19.03	35.04			25.06	297.3	300.	12.02	34.21	25.99	209.5	0.950
214.	17.53	34.80			25.25	279.6	400.	8.59	34.05	26.46	165.3	1.139
280.	13.17	34.31			25.84	223.8	500.	6.52	34.06	26.77	135.9	1.292
303.	11.86	34.20			26.01	207.5	600.	5.52	34.20	27.00	114.2	1.418
402.	8.55	34.05			26.47	164.6	700.	4.99	34.33	27.17	98.8	1.525
499.	6.53	34.06			26.76	136.2	800.	4.68	34.44	27.29	88.0	1.620
596.	5.55	34.19			26.99	114.9	1000.	4.11	34.53	27.42	75.9	1.786
793.	4.70	34.43			27.28	88.6	1200.	3.66	34.56	27.49	70.1	1.934
987.	4.14	34.53			27.42	76.3						
1184.	3.70	34.53			27.46	72.6						
1477.	3.22	34.58			27.55	65.2						

3, STATION 35, 23-30N LAT, 148- OW LONG, APR. 30, 1964, 2000 G.C.T.												
CROMWELL	WET BULB 18.5			WIND SPEED 25, DIR. 08	BAR. 24	WEATHER 02	VIS. 8	CLOUD TYPE 6, COVER 7				
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	22.74	34.92			23.97	395.0	0.	22.74	34.92	23.97	395.0	0.000
10.	22.74	34.91			23.96	396.1	10.	22.74	34.91	23.96	396.1	0.040
30. Δ	22.70	34.94			23.99	393.6	20.	22.72	34.92	23.97	395.4	0.080
50. Δ	22.68	35.02			24.06	388.1	30.	22.70	34.94	23.99	393.6	0.120
75. Δ	22.62	35.11			24.15	380.9	50.	22.68	35.02	24.06	388.1	0.199
100.	22.40	35.19			24.27	370.1	75.	22.62	35.11	24.15	380.9	0.296
124.	21.35	35.14			24.52	346.6	100.	22.40	35.19	24.27	370.1	0.390
150.	20.17	35.07			24.79	322.1	150.	20.17	35.07	24.79	322.1	0.565
175.	19.67	35.10			24.94	308.2	200.	18.42	34.93	25.13	290.8	0.719
190.	18.88	35.00			25.07	296.5	250.	14.56	34.41	25.63	243.4	0.854
224.	17.01	34.72			25.32	273.8	300.	12.03	34.18	25.97	212.1	0.969
249.	14.62	34.42			25.63	244.2	400.	8.98	34.08	26.42	169.2	1.161
275.	13.35	34.30			25.80	227.9	500.	6.77	34.03	26.71	141.6	1.318
300.	12.03	34.18			25.97	212.1	600.	5.22	34.12	26.97	115.9	1.448
398.	9.03	34.08			26.41	169.9	700.	4.64	34.26	27.15	99.5	1.557
496.	6.85	34.03			26.70	142.7	800.	4.47	34.39	27.28	88.7	1.652
592.	5.29	34.11			26.96	117.5	1000.	3.98	34.51	27.42	76.1	1.819
786.	4.51	34.38			27.26	89.9	1200.	3.48	34.56	27.51	67.8	1.964
980.	4.03	34.50			27.41	77.1						
1174.	3.52	34.54			27.49	69.6						
1466.	2.86	34.58			27.58	60.8						

TEMPERATURE ERROR TERM AT 700. METERS IS 0.12

CROMWELL DRY BULB 20.8		3, STATION WET BULB 17.2		36, 25- ON LAT, 148- OW LONG, MAY 1, 1964, 0600 G.C.T.		WIND SPEED 24, DIR. 08		BAR. 25		WEATHER 00		VIS. 8		CLOUD TYPE		COVER	
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.					
0.	21.33	35.29			24.64	330.6	0.	21.33	35.29	24.64	330.6	0.000					
10. Δ	21.34	35.29			24.64	331.2	10.	21.34	35.29	24.64	331.2	0.034					
50. Δ	21.34	35.29			24.64	332.7	20.	21.34	35.29	24.64	331.7	0.067					
75. Δ	21.34	35.29			24.64	333.7	30.	21.34	35.29	24.64	332.1	0.101					
121.	20.91	35.26			24.77	323.2	50.	21.34	35.29	24.64	333.7	0.166					
147.	20.04	35.18			24.91	310.8	75.	21.34	35.29	24.64	333.7	0.252					
171.	19.26	35.08			25.03	299.4	100.	21.15	35.28	24.69	329.9	0.335					
186.	18.68	34.97			25.10	293.7	150.	19.95	35.17	24.92	309.3	0.496					
217.	17.14	34.74			25.30	275.1	200.	18.01	34.86	25.18	285.9	0.646					
242.	15.92	34.60			25.48	258.6	250.	15.51	34.54	25.53	253.9	0.782					
268.	14.50	34.42			25.65	242.2	300.	12.53	34.25	25.93	216.1	0.901					
292.	12.91	34.28			25.87	221.2	400.	9.50	34.11	26.36	175.1	1.098					
388.	9.80	34.13			26.33	178.5	500.	7.35	34.04	26.64	149.1	1.262					
482.	7.74	34.04			26.58	154.5	600.	5.63	34.11	26.91	122.2	1.399					
574.	5.95	34.08			26.85	127.9	700.	4.74	34.22	27.11	103.9	1.513					
764.	4.47	34.30			27.20	95.2	800.	4.34	34.34	27.25	90.9	1.612					
956.	4.01	34.48			27.39	78.1	1000.	3.91	34.49	27.42	76.2	1.781					
1146.	3.57	34.51			27.46	72.2	1200.	3.46	34.55	27.51	68.2	1.927					
1435.	3.00	34.56			27.56	63.7											

 Δ FROM BT DATA

Table 3.--Continued

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA				
3, STATION 37, 26-25N LAT, 148-0W LONG, MAY 1, 1964, 1600 G.C.T.					1, 1964, 1600 G.C.T.							
CROMWELL DRY BULB 19.0	WET BULB 16.9	WIND SPEED 22, DIR. 08	BAR. 26	WEATHER 03	VIS. 8	CLOUD TYPE 8, COVER 7						
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
1.	20.93	35.33			24.78	317.4	0.	20.93	35.33	24.78	317.3	0.000
11.	20.94	35.35			24.80	316.5	10.	20.94	35.35	24.79	316.6	0.032
52.	20.44	35.33			24.92	306.6	20.	20.84	35.35	24.82	314.3	0.064
75. Δ	20.44	35.34			24.92	306.8	30.	20.72	35.35	24.85	311.8	0.096
103.	20.43	35.35			24.93	306.8	50.	20.47	35.33	24.91	307.1	0.158
129.	20.45	35.34			24.92	309.0	75.	20.44	35.34	24.92	306.8	0.235
155.	19.76	35.18			24.98	304.0	100.	20.43	35.35	24.93	306.7	0.313
180.	18.47	34.97			25.15	288.4	150.	19.95	35.22	24.96	305.7	0.467
195.	17.21	34.74			25.28	276.0	200.	16.85	34.62	25.33	272.0	0.613
229.	14.82	34.42			25.51	247.8	250.	13.16	34.24	25.79	228.0	0.739
256.	12.74	34.20			25.84	222.9	300.	11.30	34.15	26.08	201.3	0.847
283.	11.76	34.16			26.00	208.2	400.	9.01	34.08	26.41	169.9	1.034
308.	11.10	34.14			26.11	198.3	500.	6.80	34.01	26.69	143.4	1.192
409.	8.82	34.07			26.44	167.5	600.	5.34	34.07	26.92	121.1	1.326
509.	6.62	34.01			26.71	141.2	700.	4.60	34.18	27.10	104.7	1.440
608.	5.26	34.03			26.94	119.5	800.	4.22	34.30	27.23	92.6	1.540
801.	4.22	34.30			27.23	92.5	1000.	3.70	34.44	27.39	77.6	1.712
998.	3.70	34.44			27.39	77.7	1200.	3.26	34.53	27.51	67.6	1.859
1193.	3.29	34.52			27.50	68.5						
1489.	2.76	34.58			27.59	59.7						

3, STATION 38, 25- ON LAT, 151- 3W LONG, MAY 2, 1964, 0900 G.C.T.					2, 1964, 0900 G.C.T.					2, 1964, 0900 G.C.T.				
CROMWELL DRY BULB 22.2	WET BULB 18.9	WIND SPEED 14, DIR. 07	BAR. 25	WEATHER 00	VIS. 8	CLOUD TYPE , COVER								
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	22.15	35.19			24.34	359.6	0.	22.15	35.19	24.34	359.6	0.000		
10.	22.16	35.18			24.33	360.9	10.	22.16	35.18	24.33	360.9	0.037		
30. Δ	22.10	35.21			24.37	357.9	20.	22.17	35.19	24.33	361.1	0.073		
48.	21.56	35.29			24.58	338.5	30.	22.10	35.21	24.37	357.9	0.109		
75.	21.29	35.30			24.66	331.6	50.	21.54	35.29	24.59	337.6	0.179		
99.	20.56	35.22			24.80	319.4	75.	21.29	35.30	24.66	331.6	0.264		
122.	19.92	35.14			24.91	309.7	100.	20.53	35.22	24.80	318.9	0.346		
148.	19.07	35.00			25.02	299.7	150.	18.96	34.98	25.03	298.6	0.501		
173.	17.80	34.77			25.16	286.8	200.	16.94	34.71	25.33	272.0	0.645		
189.	17.47	34.76			25.24	280.3	250.	14.40	34.48	25.72	235.7	0.773		
220.	15.80	34.60			25.50	255.4	300.	12.21	34.28	26.01	208.5	0.935		
246.	14.63	34.50			25.69	238.5	400.	9.05	34.09	26.42	169.4	1.076		
274.	13.12	34.34			25.88	220.5	500.	6.49	34.02	26.74	138.4	1.231		
298.	12.28	34.28			26.00	209.4	600.	5.13	34.10	26.97	116.7	1.360		
393.	9.26	34.10			26.39	172.0	700.	4.53	34.21	27.13	101.7	1.470		
489.	6.70	34.02			26.71	141.3	800.	4.26	34.33	27.25	90.7	1.568		
586.	5.25	34.08			26.94	119.1	1000.	3.72	34.47	27.42	75.7	1.736		
779.	4.33	34.31			27.22	92.9	1200.	3.29	34.55	27.52	66.7	1.930		
973.	3.78	34.46			27.40	77.0								
1167.	3.39	34.52			27.49	69.5								
1462.	2.81	34.58			27.59	60.2								

3, STATION 39, 25- IN LAT, 154- 0W LONG, MAY 2, 1964, 2400 G.C.T.					2, 1964, 2400 G.C.T.					2, 1964, 2400 G.C.T.				
CROMWELL DRY BULB 25.5	WET BULB 20.7	WIND SPEED 15, DIR. 08	BAR. 22	WEATHER 01	VIS. 8	CLOUD TYPE 8, COVER 2								
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	23.24	34.93			23.83	408.0	0.	23.24	34.93	23.83	408.0	0.000		
10.	23.19	34.91			23.83	408.5	10.	23.19	34.91	23.83	408.5	0.042		
50. Δ	23.08	35.00			23.93	400.5	20.	23.19	34.90	23.83	409.3	0.083		
76.	22.62	35.24			24.24	371.5	30.	23.17	34.92	23.84	408.2	0.124		
102.	22.08	35.24			24.40	357.9	50.	23.08	35.00	23.93	400.5	0.205		
127.	20.78	35.12			24.66	333.3	75.	22.64	35.23	24.23	372.7	0.303		
152.	19.51	35.01			24.92	309.9	100.	22.14	35.25	24.39	358.9	0.395		
177.	18.16	34.88			25.16	287.4	150.	19.61	35.02	24.90	311.8	0.564		
192.	17.30	34.78			25.29	275.0	200.	16.88	34.73	25.36	268.9	0.710		
226.	15.52	34.59			25.56	250.2	250.	14.17	34.43	25.73	234.1	0.837		
252.	14.07	34.42			25.74	233.0	300.	12.22	34.24	25.98	211.3	0.949		
278.	13.27	34.34			25.85	223.5	400.	9.30	34.08	26.37	174.2	1.144		
304.	12.02	34.22			26.00	209.1	500.	6.61	34.02	26.72	140.2	1.303		
404.	9.22	34.08			26.38	173.0	600.	5.20	34.08	26.95	118.4	1.433		
505.	6.49	34.02			26.74	138.7	700.	4.53	34.21	27.12	102.0	1.545		
606.	5.15	34.09			26.96	117.4	800.	4.21	34.34	27.26	89.4	1.641		
807.	4.20	34.35			27.27	88.6	1000.	3.81	34.49	27.42	75.6	1.808		
1008.	3.80	34.49			27.42	75.3	1200.	3.37	34.54	27.51	68.0	1.954		
1207.	3.35	34.54			27.51	67.8	1500.	2.84	34.58	27.59	60.7	2.150		
1509.	2.82	34.58			27.59	60.6								

FROM BT DATA

Table 3.--Continued

ORIGINAL DATA					DERIVED DATA					INTERPOLATED DATA				
CROMWELL DRY BULB 23.0		3, STATION WET BULB		40, 25- 19.9	ON LAT, 157- WIND SPEED 16, DIR. 09	ON LONG, MAY 16, DIR. 09	3, 1964, 1600 G.C.T. BAR. 21	WEATHER 02	VIS. 8	CLOUD TYPE	COVER			
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. DPTH.		
0.	22.66	35.25			24.24	369.0	0.	22.66	35.25	24.24	369.0	0.000		
10.	22.66	35.24			24.23	370.1	10.	22.66	35.24	24.23	370.1	0.038		
30. ^A	22.66	35.24			24.23	370.9	20.	22.66	35.24	24.23	370.6	0.075		
50. ^A	22.66	35.24			24.23	371.6	30.	22.66	35.24	24.23	370.9	0.112		
75. ^A	22.20	35.22			24.35	361.6	50.	22.66	35.24	24.23	371.6	0.187		
102.	20.61	35.12			24.66	333.1	75.	22.20	35.22	24.35	361.6	0.280		
126.	19.74	35.04			24.88	312.6	100.	20.93	35.13	24.63	355.4	0.367		
151.	18.44	34.90			25.11	291.8	150.	18.49	34.91	25.10	292.6	0.526		
177.	17.27	34.78			25.30	273.9	200.	16.16	34.68	25.49	256.7	0.664		
192.	16.52	34.72			25.43	261.7	250.	13.97	34.43	25.77	230.1	0.787		
225.	15.10	34.56			25.63	243.4	300.	11.93	34.24	26.03	205.6	0.897		
252.	13.88	34.42			25.78	229.1	400.	9.38	34.11	26.38	173.2	1.088		
279.	12.81	34.32			25.92	216.0	500.	7.29	34.03	26.64	148.8	1.250		
304.	11.77	34.23			26.05	203.7	600.	5.79	34.08	26.88	135.9	1.389		
404.	9.31	34.11			26.19	172.3	700.	4.86	34.19	27.07	107.2	1.507		
507.	7.16	34.03			26.65	147.3	800.	4.31	34.31	27.23	92.7	1.603		
606.	5.72	34.09			26.89	124.6	1000.	3.78	34.46	27.40	77.4	1.780		
807.	4.28	34.32			27.24	91.8	1200.	3.26	34.54	27.51	66.8	1.926		
1005.	3.77	34.46			27.40	77.1	1500.	2.70	34.58	27.60	59.0	2.117		
1204.	3.25	34.54			27.52	66.6								
1504.	2.69	34.58			27.60	59.0								

CROMWELL DRY BULB 23.7		3, STATION WET BULB		41, 23-29N LAT, 157- WIND SPEED 21, DIR. 09	ON LONG, MAY 16, DIR. 09	4, 1964, 0500 G.C.T. BAR. 19	WEATHER 03	VIS. 8	CLOUD TYPE 8,	COVER 5				
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. DPTH.		
1.	23.42	34.87			23.73	417.4	0.	23.42	34.87	23.73	417.3	0.000		
10.	23.44	34.89			23.74	416.8	10.	23.44	34.89	23.74	416.8	0.043		
30. ^A	23.42	34.90			23.76	416.3	20.	23.43	34.90	23.75	416.6	0.084		
50. ^A	23.40	34.92			23.78	415.1	30.	23.42	34.90	23.76	416.3	0.126		
75. ^A	23.38	34.93			23.79	414.8	50.	23.40	34.92	23.78	415.1	0.210		
100.	22.20	35.08			24.24	372.6	75.	23.38	34.93	23.79	414.8	0.315		
124.	20.96	35.05			24.56	362.9	100.	22.20	35.08	24.24	372.6	0.414		
150.	20.16	35.08			24.80	321.1	150.	20.16	35.08	24.80	321.1	0.589		
174.	19.02	34.96			25.00	302.3	200.	17.97	34.82	25.16	287.8	0.742		
190.	18.52	34.88			25.07	296.5	250.	14.26	34.45	25.73	234.3	0.874		
223.	16.36	34.67			25.43	262.7	300.	11.86	34.26	26.07	202.7	0.984		
249.	14.33	34.46			25.72	235.3	400.	8.68	34.09	26.47	163.9	1.169		
273.	12.08	34.34			25.92	215.8	500.	6.50	34.05	26.76	136.5	1.320		
298.	11.93	34.27			26.06	203.6	600.	5.45	34.12	26.95	118.9	1.449		
397.	8.76	34.09			26.46	164.9	700.	4.84	34.24	27.12	103.3	1.562		
496.	6.56	34.05			26.75	137.3	800.	4.47	34.37	27.25	90.7	1.660		
592.	5.51	34.11			26.93	120.3	1000.	3.89	34.49	27.41	76.2	1.829		
792.	4.54	34.35			27.23	92.5	1200.	3.40	34.56	27.52	66.7	1.973		
974.	3.95	34.48			27.40	77.5								
1166.	3.51	34.54			27.49	69.4								
1401.	2.86	34.61			27.61	58.6								

CROMWELL DRY BULB 23.2		3, STATION WET BULB		42, 21-58N LAT, 157- WIND SPEED 22, DIR. 09	ON LONG, MAY 16, DIR. 09	4, 1964, 1500 G.C.T. BAR. 18	WEATHER 02	VIS. 8	CLOUD TYPE	COVER				
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. DPTH.		
0.	23.26	35.00			23.88	403.5	0.	23.26	35.00	23.88	403.5	0.000		
9.	23.24	35.01			23.89	402.6	10.	23.24	35.01	23.89	402.5	0.041		
30. ^A	23.20	35.03			23.92	400.8	20.	23.22	35.02	23.91	401.5	0.082		
50. ^A	23.20	35.03			23.92	401.6	30.	23.20	35.03	23.92	400.8	0.122		
75. ^A	23.20	35.03			23.92	402.6	50.	23.20	35.03	23.92	401.6	0.203		
100. ^A	23.18	35.03			23.92	403.0	75.	23.20	35.03	23.92	402.6	0.304		
123.	21.52	35.07			24.42	356.1	100.	23.18	35.03	23.92	403.0	0.406		
148.	20.60	35.05			24.66	334.5	150.	20.50	35.05	24.69	332.0	0.591		
174.	19.05	35.00			25.03	300.1	200.	16.88	34.74	25.36	268.8	0.742		
190.	17.72	34.84			25.24	280.4	250.	13.96	34.43	25.77	229.9	0.868		
222.	15.28	34.55			25.58	247.8	300.	12.29	34.32	26.02	206.9	0.978		
247.	14.12	34.44			25.75	232.4	400.	8.75	34.08	26.46	165.6	1.166		
276.	12.74	34.36			25.97	211.7	500.	6.26	34.04	26.78	133.9	1.317		
299.	12.32	34.32			26.02	207.2	600.	5.29	34.15	26.99	114.4	1.442		
399.	8.78	34.08			26.45	165.9	700.	4.87	34.28	27.14	100.8	1.551		
499.	6.27	34.04			26.78	134.2	800.	4.62	34.40	27.26	90.2	1.648		
598.	5.30	34.15			26.99	114.7	1000.	3.76	34.51	27.44	73.2	1.813		
793.	4.65	34.39			27.25	91.0	1200.	3.23	34.56	27.53	64.9	1.953		
988.	3.00	34.51			27.44	73.6								
1184.	3.33	34.53			27.50	68.2								
1478.	2.77	34.60			27.61	58.3								

^A FROM BT DATA

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